

# NDUFA2 cDNA

Catalog Number: ATGD0284

## PRODUCT INFORMATION

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**Catalog number**

ATGD0284

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_002479.

**Alternative Names**

B8, CD14, CIB8

**mRNA Refseq**

NM\_002488.4

**OMIM**

602137

**Chromosome location**

5q31.2

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

300bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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NDUFA2 is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex 1), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane, and may be involved in regulating complex I activity or its assembly via assistance in redox processes. Mutations in this gene are associated with Leigh syndrome, an early-onset progressive neurodegenerative disorder. Alternative splicing results in multiple transcript variants.

### DATA

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#### Sequence nucleotides

```
ATGGCGGGCGGCCGAGCAAGTCGAGGAGTCGGGGCAAAGCTGGGCCTGCGTGAGATTCGCATCCACTTATGTCAGCGCTC
GCCCCGCAGCCAGGGCGTCAGGGACTTCATTGAGAAACGCTACGTGGAGCTGAAGAAGGCGAATCCCGACCTACCCATCC
TAATCCGCGAATGCTCCGATGTGCAGCCCAAGCTCTGGGCCCGCTACGCATTTGGCCAAGAGACGAATGTCCCTTTGAACA
ACTTCAGTGCTGATCAGGTAACCAGAGCCCTGGAGAACGTTCTAAGTGGTAAAGCCTGA
```

#### Transaction Sequence

```
MAAAAASRGV GAKLGLREIR IHLCQRSPGS QGVRDFIEKR YVELKKANPD LPILIRECS D VQPKLWARYA FGQETNVPLN
NFSADQVTRA LENVLSGKA
```