

OPA3 cDNA

Catalog Number: ATGD0390

PRODUCT INFORMATION

Catalog number

ATGD0390

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001017989.2

Alternative Names

MGA3

mRNA Refseq

NM_001017989.2

OMIM

606580

Chromosome location

19q13.32

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

543bp

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 Hind III. 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

OPA3 cDNA

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OPA3 plays some role in mitochondrial processes. Mutations in OPA3 have been shown to result in 3-methylglutaconic aciduria type III and autosomal dominant optic atrophy and cataract. Multiple transcript variants encoding different isoforms have been found for OPA3.

DATA

Sequence nucleotides

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ATGGTGGTGGGCGCGTTCCCTATGGCGAAGCTGCTATACTTGGGCATCCGGCAGGTCAGCAAGCCGCTTGCCAACCGTATT
AAGGAGGCCCGCCGCGGAAGCGAGTTCTTCAAGACCTATATCTGCCTCCCGCCGGCTCAACTGTACCACTGGCTGGAGATG
CGGACCAAAATGCGCATCATGGGTTTCAATGCCGCTGCCATCAAGCCGCTGAACGAGGGTGCAGCCGCCGAGCTGGGCGC
GGAGCTGCTGGGCGAGGGCATCATCTTCATCACCGCCTGCAGCTGCCTGATGCTGGAGTATTGGCGCCACCAGTTGCAGC
AGCGCCGCAAGGAAAAGGAGCGACGTGTTGCCAGGGAGGCGCTGCGGGGCGAGGTGGGCCACTTGGGGCTGGCGCTCG
AGGAGTTGCAGGCGCAGGTGCAGGCGACGTGACGCGAGCTCGCCCTGGAGGAGCTGCGCGCTCAGCTGCAGGAGGTGCG
AGCCACCTCTGCCTCCGAGACCCGCCGCTGCACCCCCAGTTGCGCCGGCGTCCGAGAAATAG
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Transaction Sequence

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MVVGAFPMK LLYLGIRQVS KPLANRIKEA ARRSEFFKTY ICLPPAQLYH WLEMRTKMRIMGFNAAAIKP LNEGAAAELG
AELLGEGIIF ITACSLMLE YWRHQLQRR KEKERRVAREALRGEVGH LG LALEELQAQV QATSTQLALE ELRAQLQEV
AHLCLRDPPP APPVAPASEK
```