

**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

Catalog Number: ATGD0390

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

```
ATGGTGGTGGGCGCGTTCCCTATGGCGAAGCTGCTATACTTGGGCATCCGGCAGGTCAGCAAGCCGCTTGCCAACCGTATT
AAGGAGGCCCGCCCGCCGAAGCGAGTTCTTCAAGACCTATATCTGCCTCCCGCCGGCTCAACTGTACCACTGGCTGGAGATG
CGGACCAAAATGCGCATCATGGGTTTCAATGCCGCTGCCATCAAGCCGCTGAACGAGGGTGCAGCCGCCGAGCTGGGCGC
GGAGCTGCTGGGCGAGGGCATCATCTTCATCACCGCCTGCAGCTGCCTGATGCTGGAGTATTGGCGCCACCAAGTTGCAGC
AGCGCCGCAAGGAAAAGGAGCGACGTGTTGCCAGGGAGGCGCTGCGGGGCGAGGTGGGCCACTTGGGGCTGGCGCTCG
AGGAGTTGCAGGCGCAGGTGCAGGCGACGTGACGCGAGCTCGCCCTGGAGGAGCTGCGCGCTCAGCTGCAGGAGGTGCG
AGCCACCTCTGCCTCCGAGACCCGCCGCTGCACCCCCAGTTGCGCCGGCGTCCGAGAAATAG
```

### Transaction Sequence

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