

MAPKAPK3 cDNA

Catalog Number: ATGD0311

PRODUCT INFORMATION

Catalog number

ATGD0311

Product type

cDNA

Species

Human

NCBI Accession No.

NP_004626.1

Alternative Names

3PK, MAPKAP-K3, MAPKAP3, MAPKAPK-3, MK-3

mRNA Refseq

NM_004635.4

OMIM

602130

Chromosome location

3p21.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1149bp

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

MAPKAPK3 cDNA

Catalog Number: ATGD0311

MAPKAPK3 encodes a member of the Ser/Thr protein kinase family. MAPKAPK3 functions as a mitogen-activated protein kinase (MAP kinase) - activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. Alternate splicing results in multiple transcript variants that encode the same protein.

DATA

Sequence nucleotides

```
ATGGATGGTGAACAGCAGAGGAGCAGGGGGGCCCTGTGCCCCGCCAGTTGCACCCGGCGGACCCGGCTTGGGCGGTG
CTCCGGGGGGGGCGGCGGGAGCCCAAGAAGTACGCAGTGACCGACGACTACCAGTTGTCCAAGCAGGTGCTGGGCCTGGG
TGTGAACGGCAAAGTGCTGGAGTGCTTCCATCGGCGCACTGGACAGAAAGTGTGCCCTGAAGCTCCTGTATGACAGCCCCAA
GGCCCGGCAGGAGGTAGACCATCACTGGCAGGCTTCTGGCGGGCCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACAT
GCACCATGGCAAGCGCTGTCTCCTCATCATCATGGAATGCATGGAAGGTGGTGAGTTGTTTCAGCAGGATTTCAGGAGCGTGG
CGACCAGGCTTTCACTGAGAGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAA
CATTGCCCACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAAGACGCAGTGCTTAAGCTCACCGATTTT
GGCTTTGCTAAGGAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTATTATGTGGCCCCTGAGGTCCTGGGTG
CAGAGAAGTATGACAAGTCATGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTCCTTTGTGGCTTCCCACCCTTCTA
CTCCAACACGGGGCCAGGCCATCTCCCCGGGGATGAAGAGGAGGATTGCCTGGGCCAGTACGGCTTCCCCAATCCTGAGT
GGTCAGAAGTCTCTGAGGATGCCAAGCAGCTGATCCGCCTCCTGTTGAAGACAGACCCACAGAGAGGCTGACCATCACTC
AGTTCATGAACCACCCCTGGATCAACCAATCGATGGTAGTGCCACAGACCCCACTCCACACGGCCCGAGTGCTGCAGGAGG
ACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGACCAGTGCCCTGGCCACTATGCGGGTAGACTACGACCAGGTGAAG
ATCAAGGACCTGAAGACCTCTAACAACCGGCTCCTCAACAAGAGGAGAAAAAAGCAGGCAGGCAGCTCCTCTGCCTCACAG
GGCTGCAACAACCAAGTAG
```

Transaction Sequence

```
MDGETAEEQG GPVPPPVAPG GPGLGGAPGG RREPKEYAVT DDYQLSKQVL GLGVNGKVLECFHRRTGQKC ALKLLYDSPK
ARQEVDDHHWQ ASGGPHIVCI LDVYENMHG KRCLLIIMECMEGGELFSRI QERGDQAFTE REAAEIMRDI GTAIQFLSH
NIAHRDVKPE NLLYSKEKDAVLKLTDFGF AKETTQNALQ TPCYTPYYVA PEVLGPEKYD KSCDMWSLGV
IMYILLCGFPFYSNTGQAI SPGMKRRIRL GQYGFNPPEW SEVSEDAKQL IRLLLKTDPT ERLTITQFMNHPWINQSMVV
PQTPHHTARV LQEDKDHWE VKEEMTSALA TMRVDYDQVK IKDLKTSNNRLLNKRRKKQA GSSSASQGCN NQ
```