

MAP2K2 cDNA

Catalog Number: ATGD0016

PRODUCT INFORMATION

Catalog number

ATGD0016

Product type

cDNA

Species

Human

NCBI Accession No.

NP_109587.1

Alternative Names

Mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK2, MAPK/ERK kinase 2, MEK2, MKK2, PRKMK2, ERK activator kinase 2

mRNA Refseq

NM_030662.3

OMIM

601263

Chromosome location

19q13.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1203bp

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)

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General Description

MAP2K2, also known as MEK2, belongs to the STE grouping of kinases. Both MEK2 and the related MEK1 are dualspecificity kinases, phosphorylating and activating the mitogen-activated protein kinases ERK1 and ERK2 at T and Y positions within the phosphoacceptor sequence T-E-Y. MAP2K2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx.

DATA

Sequence nucleotides

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ATGCTGGCCC GGAGGAAGCC GGTGCTGCCG GCGCTCACCA TCAACCCTAC CATCGCCGAG GGCCCATCCC
CTACCAGCGA GGGCGCCTCC GAGGCAAACC TGGTGGACCT GCAGAAGAAG CTGGAGGAGC TGGAACCTGA
CGAGCAGCAG AAGAAGCGGC TGGAAGCCTT TCTACCCAG AAAGCCAAGG TCGGCGAACT CAAAGACGAT
GACTTCGAAA GGATCTCAGA GCTGGGCGCG GGCAACGGCG GGTGGTCAC CAAAGTCCAG CACAGACCCT
CGGGCCTCAT CATGGCCAGG AAGCTGATCC ACCTTGAGAT CAAGCCGGCC ATCCGGAACC AGATCATCCG
CGAGCTGCAG GTCCTGCACG AATGCAACTC GCCGTACATC GTGGGCTTCT ACGGGGCCTT CTACAGTGAC
GGGGAGATCA GCATTTGCAT GGAACACATG GACGGCGGCT CCCTGGACCA GGTGCTGAAA GAGGCCAAGA
GGATTCCCGA GGAGATCCTG GGGAAAGTCA GCATCGCGGT TCTCCGGGGC TTGGCGTACC TCCGAGAGAA
GCACCAGATC ATGCACCGAG ATGTGAAGCC CTCCAACATC CTCGTGAACT CTAGAGGGGA GATCAAGCTG
TGTGACTTCG GGGTGAGCGG CCAGCTCATC GACTCCATGG CCAACTCCTT CGTGGGCACG CGCTCCTACA
TGGCTCCGGA GCGGTTGCAG GGCACACATT ACTCGGTGCA GTCGGACATC TGGAGCATGG GCCTGTCCCT
GGTGGAGCTG GCCGTCGGAA GGTACCCCAT CCCCCCGCCC GACGCCAAAG AGCTGGAGGC CATCTTTGGC
CGGCCCGTGG TCGACGGGGA AGAAGGAGAG CCTCACAGCA TCTCGCCTCG GCCGAGGCC CCCGGGCGCC
CCGTCAGCGG TCACGGGATG GATAGCCGGC CTGCCATGGC CATCTTTGAA CTCCTGGACT ATATTGTGAA
CGAGCCACCT CTAAGCTGC CCAACGGTGT GTTACCCCC GACTTCCAGG AGTTTGTCAA TAAATGCCTC
ATCAAGAACC CAGCGGAGCG GCGGACCTG AAGATGCTCA CAAACCACAC CTTATCAAG CGGTCCGAGG
TGGAAGAAGT GGATTTTGCC GGCTGTTGT GTAAAACCT GCGGCTGAAC CAGCCCGGCA CACCCACGCG
CACCGCCGTG TGA
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Transaction Sequence

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MLARRKPVLP ALTINPTIAE GPSPTSEGAS EANLVDLQKK LEELELDEQQ KKRLEAFLTQ KAKVGELKDD DFERISELGA
GNGGVVTKVQ HRPGLIMAR KLIHLEIKPA IRNQIIRELQ VLHECNSPYI VGFYGAIFYSD GEISICMEHM DGGSLDQVLK
EAKRIPEEIL GKVSIAVLRG LAYLREKHQI MHRDVKPSNI LVNSRGEIKL CDFGVSGQLI DSMANSFVGT RSYMAPERLQ
GTHYSVQSDI WSMGLSLVEL AVGRYPIPPP DAKELEAIFG RPVVDGEEGE PHSISPRPRP PGRPVS GHGM DSRPAMAIFE
LLDIYVNEPP PKLPNGVFTP DFQEFVNKCL IKNPAERADL KMLTNHTFIK RSEVEEVDFG GWLCKTLRLN QPGTPTRTAV
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