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

ATGCTGGCCC GGAGGAAGCC GGTGCTGCCG GCGCTCACCA TCAACCCTAC CATCGCCGAG GGCCCATCCC
CTACCAGCGA GGGCGCCTCC GAGGCAAACC TGGTGGACCT GCAGAAGAAG CTGGAGGAGC TGGAACTTGA
CGAGCAGCAG AAGAAGCGGC TGGAAGCCTT TCTCACCCAG AAAGCCAAGG TCGGCGAACT CAAAGACGAT
GACTTCGAAA GGATCTCAGA GCTGGGCGCG GGCAACGGCG GGGTGGTCAC 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 GCCGAGGCCC CCCGGGCGCC
CCGTCAGCGG TCACGGGATG GATAGCCGGC CTGCCATGGC CATCTTTGAA CTCCTGGACT ATATTGTGAA
CGAGCCACCT CCTAAGCTGC CCAACGGTGT GTTCACCCCC GACTTCCAGG AGTTTGTCAA TAAATGCCTC
ATCAAGAACC CAGCGGAGCG GGCGGACCTG AAGATGCTCA CAAACCACAC CTTCATCAAG CGGTCCGAGG
TGGAAGAAGT GGATTTTGCC GGCTGGTTGT GTAAAACCCT GCGGCTGAAC CAGCCCGGCA CACCCACGCG
CACCGCCGTG TGA

Transaction Sequence

MLARRKPVLP ALTINPTIAE GPSPTSEGAS EANLVDLQKK LEELELDEQQ KKRLEAFLTQ KAKVGELKDD DFERISELGA
GNGGVVTKVQ HRPSGLIMAR KLIHLEIKPA IRNQIIRELQ VLHECNSPYI VGFYGAFYSD GEISICMEHM DGGSLDQVLK
EAKRIPEEIL GKVSIAVLRG LAYLREKHQI MHRDVKPSNI LVNSRGEIKL CDFGVSGQLI DSMANSFVGT RSYMAPERLQ
GTHYSVQSDI WSMGLSLVEL AVGRYPIPPP DAKELEAIFG RPVVDGEEGE PHSISPRPRP PGRPVSGHGM DSRPAMAIFE
LLDYIVNEPP PKLPNGVFTP DFQEFVNKCL IKNPAERADL KMLTNHTFIK RSEVEEVDFA GWLCKTLRLN QPGTPTRTAV