

MAP2K1 cDNA

Catalog Number: ATGD0015

PRODUCT INFORMATION

Catalog number

ATGD0015

Product type

cDNA

Species

Human

NCBI Accession No.

NP_002746.1

Alternative Names

Mitogen-activated protein kinase kinase 1, MAP2K1, CFC3, MAP kinase kinase 1, MAPKK1, MEK1, MKK1, PRKMK1, ERK activator kinase 1, MAPK/ERK kinase 1

mRNA Refseq

NM_002755.3

OMIM

176872

Chromosome location

15q22.1-q22.33

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1182bp

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 inserted 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

MAP2K1 is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development.

DATA

Sequence nucleotides

ATGCCAAGA AGAACCGGAC GCCCATCCAG CTGAACCCGG CCCCCGACGG CTCTGCAGTT AACGGGACCA GCTCTGCGGA GACCAACTTG GAGGCCTTGC AGAAGAAAGCT GGAGGGAGCTA GAGCTTGATG AGCAGCAGCG AAAGCGCCTT GAGGCCTTTC TTACCCAGAA GCAGAAGGTG GGAGAACTGA AGGATGACGA CTTTGAGAAG ATCAGTGAGC TGGGGGCTGG CAATGGCGGT GTGGTGTTCAGGCTCTCCA CAAGCCTTCT GGCCTGGTCA TGGCCAGAAA GCTAATTCTAT CTGGAGATCA AACCCGCAAT CCGGAACCAG ATCATAAGGG AGCTGCAGGT TCTGCATGAG TGCAACTCTC CGTACATCGT GGGCTTCTAT GGTGCGTTCT ACAGCGATGG CGAGATCAGT ATCTGCATGG AGCACATGGA TGGAGGTTCT CTGGATCAAG TCCTGAAGAA AGCTGGAAGA ATTCTGAAC AAATTTAGG AAAAGTTAGC ATTGCTGTAA TAAAAGGCCT GACATATCTG AGGGAGAAGC ACAAGATCAT GCACAGAGAT GTCAAGCCCT CCAACATCCT AGTCAACTCC CGTGGGGAGA TCAAGCTCTG TGACTTTGGG GTCAGCGGGC AGCTCATCGA CTCCATGGCC AACTCCTTCG TGGGCACAAG GTCCTACATG TCGCCAGAAA GACTCCAGGG GACTCATTAC TCTGTGCAGT CAGACATCTG GAGCATGGGA CTGTCTCTGG TAGAGATGGC GGTGAGGGAGG TATCCCATTCC CTCCTCCAGA TGCCAAGGAG CTGGAGCTGA TGTTTGGGTG CCAGGTGGAA GGAGATGCGG CTGAGACCCC ACCCAGGCCA AGGACCCCCG GGAGGCCCCT TAGCTCATAC GGAATGGACA GCCGACCTCC CATGGCAATT TTTGAGTTGT TGGATTACAT AGTCAACGAG CCTCCTCCAA AACTGCCAG TGGAGTGTTC AGTCTGGAAT TTCAAGATTT TGTGAATAAA TGCTTAATAA AAAACCCCGC AGAGAGAGCA GATTGAGAC AACTCATGGT TCATGCTTT ATCAAGAGAT CTGATGCTGA GGAAGTGGAT TTTGCAGGTT GGCTCTGCTC CACCATCGGC CTTAACCAAGC CCAGCACACC AACCCATGCT GCTGGCGTCT AA

Transaction Sequence

MPKKKPTPIQ LNPAPDGSAN NGTSSAETNL EALQQKLEEL ELDEQQRKRL EAFLTQKQKV GELKDDDFEK ISELGAGNGG VVFKVSHKPS GLVMARKLIH LEIKPAIRNQ IIRELQLVHE CNSPYIVGFY GAFYSDGEIS ICMEHMDGGS LDQVLKKAGR IPEQILGKVS IAVIKGLTYL REKHKIMHRD VKPSNILVNS RGEIKLCDFG VSGQLIDSMA NSFVGTRSYM SPERLQGTHY SVQSDIWSMG LSLVEMAVGR YPIPPPDAKE LELMFGCQVE GDAAETPPRP RTPGRPLSSY GMDSRPPMAI FELLDYIVNE PPPKLPSGVF SLEFQDFVNK CLIKNPAERA DLKQLMVHAF IKRSDAEEVD FAGWLCSTIG LNQPSTPTHA AGV