

Product datasheet for RC217410

MAP3K6 (NM_004672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K6 (NM_004672) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP3K6
Synonyms:	ASK2; MAPKKK6; MEKK6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217410 representing NM_004672 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCCG
GCC

ATGGCGGGCCGTGTCCCGGTCCGGGGCGGAGCGCGCCGGCAGCTGCTGGCAGGACCCGCTGGCCGTGG
CGCTGAGCCGGGGCCGGCAGCTCGCGGCCCGCCGGGGCTGCGCGCGGAGCCGGCCGCTCAGCGT
GGTCTACGTGCTGACCCGGGAGCCGAGCCCGGGCTCGAGCCTCGGGAGGGAACCGAGCCGAGCCGCTG
CCCCTGCGCTGCCTGCGGAGGCTTGCAGCGAGGTCCCCGGCCCGGCCCGCCCGCAGCTGCGCAGCC
TGCCCTTCGGGACGCTGGAGCTAGGCGACACCGCGGCTCTGGATGCCTTCTACAACGCGGATGTGGTGGT
GCTGGAGGTGAGCAGCTCGCTGGTACAGCCCTCCCTGTTCTACCACCTTGGTGTGCGTGAGAGCTTCAGC
ATGACCAACAATGTGCTCCTCTGCTCCCAGGCCGACCTCCCTGACCTGCAGGCCCTGCGGGAGGATGTTT
TCCAGAAGAACTCGGATTGCGTTGGCAGCTACACACTGATCCCCTATGTGGTGACGGCCACTGGTCGGGT
GCTGTGTGGTGTGACAGGCCCTTCTGCGGGGCTGGCTGATGGGCTGGTACAGGCTGGAGTGGGACCCGAG
GCCCTGCTCACTCCCCTGGTGGGCCGGCTTGCCTGCTGGAGGCCACACCCACAGACTCTTGTGGCT
ATTTCCGGGAGACCATTGCGCGGACATCCGGCAGGCGCGGGAGCGGTTCACTGGCCACAGCTGCGGCA
GGAGCTGGCTCGCTGCAGCGGAGACTGGACAGCGTGGAGCTGCTGAGCCCCGACATCATCATGAACCTG
CTGCTCTCTACCGGATGTGCAGGACTACTCGGCCATCATTGAGCTGGTGGAGACGCTGCAGGCCCTG
CCACTGTGATGTGGCCGAGCAGCATAATGTCTGCTTCCACTACACTTTTGCCCTCAACCGAGGAACAG
GCCTGGGACCGGGCAAGGCCCTGTCTGTGCTGCTGCCGCTGGTACAGCTTGGAGGCTCTGTGGCGCC
GATCTGTACTGCATGTGTGGCCGATCTACAAGGACATGTTCTTTCAGCTCGGGTTTCCAGGATGCTGGG
ACCGGGAGCAGGCCTCACTGGTATCGCAAGGCTTTTGACGTAGAGCCAGCCTTCACTCAGGCATCAA
TGCAGCTGTGCTCCTCATTGCTGCCGGCAGCACTTTGAGGATCCAAAGAGCTCCGGCTAATAGGCATG
AAGCTGGGCTGCCTGCTGCCCGCAAAGGCTGCGTGGAGAAGATGCAGTATTACTGGGATGTGGGTTTCT
ACCTGGGAGCCAGATCCTCGCCAATGACCCACCCAGGTGGTGTGGCTGCAGAGCAGCTGATAAGCT
CAATGCCCCATATGGTACCTGGTGTCCGTGATGGAGACCTTCTGCTTACCAGCACTTACGGCCACG



[View online >](#)

CCAGAGCCCCCTGGAGGGCCACCACGCCGTGCCCACTTCTGGCTCCACTTCTTGCTACAGTCTGCCAAC
CATTCAAGACAGCCTGTGCCAGGGCGACCAGTCTTGGTCTGGTCTGGAGATGAACAAGGTGCTGCT
GCCTGCAAAGCTCGAGGTTGGGGTACTGACCCAGTAAGCACAGTGACCTGAGCCTGCTGGAGCCTGAG
ACCCAGGACATTCCTCCAGCTGGACCTCCCAGTCGCTCCATATGCGGAGTCAGCGCTCAAAGCGCG
ACGAGCGCTGTGCTTCTCTATGCACTCCCCCGGCTCAGGACGTCCAGCTGTGCTTCCCAGCGTAGG
GCACTGCCAGTGGTTCTGCGCCCTGATCCAGGCCTGGGTGACGAACCCGGATTCCACGGCGCCCGGGAG
GAGGCGGAGGGCGCGGGGAGATGTTGGAGTTGATTATGAGTACACGGAGACGGCGAGCGGCTGGTGC
TGGGCAAGGGCACGTATGGGGTGGTGTACGCGGGCCGCGATCGCCACACGAGGGTGCATCGCCATCAA
GGAGATCCCGAGCGGGACAGCAGGTTCTCTCAGCCCCTGCATGAAGAGATCGCTCTTACAGACGCCTG
CGCCACAAGAACATAGTGCCTATCTGGGCTCAGCTAGCCAGGGCGGCTACCTTAAGATCTTCATGGAGG
AAGTGCCTGGAGGCAGCCTGTCTCCTTCTGCTGCGGTGGTGTGGGGACCCCTGAAGGACAACGAGAGCAC
CATCAGTTTCTACACCCGCCAGATCCTGCAGGGACTTGGCTACTTGCACGACAACCACATCGTGCACAGG
GACATAAAAGGGGACAATGTGCTGATCAACACCTTCAGTGGGCTGCTCAAGATTTCTGACTTCGGCACCT
CCAAGCGGCTGGCAGGCATCACACCTTGCAGTGCAGCCTTACAGGAACCTGCAGTATATGGCCCCAGA
AATCATTGACCAGGGCCACGCGGTATGGGAAAGCAGCTGACATCTGGTCACTGGGCTGCACTGTCATT
GAGATGGCCACAGGTCGCCCCCTTCCACGAGCTCGGGAGCCACAGGCTGCCATGTTTCAGGTGGGTA
TGTACAAGGTCCATCCGCAATGCCAGCTCTCTGTCGGCCGAGGCCAAGCCTTTCTCCTCCGAACCTT
TGAGCCAGACCCCGCTCCGAGCCAGCGCCAGACACTGCTGGGGGACCCCTTCTGCAGCCTGGGAAA
AGGAGCCGAGCCCGCTCCACGACATGCTCCACGGCCCTCAGATGCCCTTCTGCCAGTCCCCTC
CTTCCAGCAACTCAACCACCCAGTCTCAGACATTCCTGTCCTCAGGCACCCCTCAGCACCCACCCAG
CCCCCGAAGCGCTGCCTCAGTTATGGGGCACCAGCCAGCTCCGGTGCCCGAGGAGCCTGCGGGCAG
GAGCCTGCGTCTCCGGAGGAGATTCCGGGCTGAGCCTGCTGCACCAGGAGAGCAAGCGTCGGCCATGC
TGGCCGAGTATTGGAGCAGGAGCTGCCAGCCTGGCGGAGAATCTGCACCAGGAGCAGAAGCAAGAGCA
GGGGGCCCGTCTGGGCAGAAACCATGTGGAAGAGCTGCTGCGCTCGGGGCACACATCCACACTCCC
AACCGCCGGCAGCTCGCCAGGAGCTGCGGGCGCTGCAAGGACGGCTGAGGGCCAGGGCCTTGGCCTG
CGCTTCTGCACAGACCGCTGTTTGCCTTCCCGGATGCGGTGAAGCAGATCCTCCGCAAGCGCCAGATCCG
TCCACACTGGATGTTCTGTTCTGGACTACTGCTCAGCCGTGCTGTGCGGGCAGCCCTGGGTGTGCTAGGA
CCGGAGGTGGAGAAGGAGGCGGTCTCACCGAGGTGAGGAGCTGAGTAATGAAGGGGACTCCAGCAGA
GCCAGGCCAGCAGAGCCCGCTCCGGTGGAGCCGAGCAGGGCCCGCTCCTCTGATGGTGCAGCTGAG
CCTTTGAGGGCAGAGACTGATCGGCTGCGGAAATCCTGGCGGGGAAGGAACGGGAGTACCAGGCCCTG
GTGACGCGGGCTCTACAGCGGCTGAATGAGGAAGCCCGACCTATGTCTGGCCAGAGCCTCCAAGT
CTTTTCAACGGACCAGGCCTGGTGCAGTGGCTACAGGAACGAATGTGGATTCAGGCACCATCCAAT
GCTGTTGAACCATAGCTTACCCTCCACACTCTGCTCACCTATGCCACTCGAGATGACCTCATCTACACC
CGCATCAGGGGAGGGATGGTATGCCGATCTGGAGGGCCATCTTGGCACAGCGAGCAGGATCCACACCAG
TCACCTCTGGACCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217410 representing NM_004672
 Red=Cloning site Green=Tags(s)

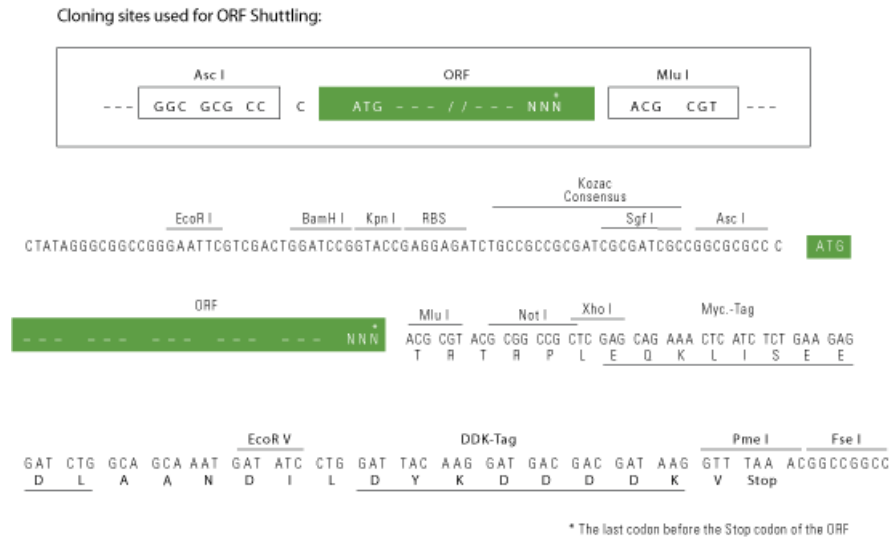
```
MAGPCPRSGAERAGSCWQDPLAVALSRGRQLAAPPGRGCARSRPLSVVVYLTREPQPGLEPREGTEAEPL
PLRCLREACAQVPRPRPPQLRSLPFGTLELGDTAALDAFYNAVVVVLEVSSSLVQPSLFYHLGVRESFS
MTNNVLLCSQADLPDLQALREDFVQKNSDCVGSYTLIPYVVVATGRVLCGDAGLLRGLADGLVQAGVGT
ALLTPLVGRRLARLLEATPTDSCGYFRETIRRRDIRQARERFSGPQLRQELARLQRRLDSVELLSPDIIMNL
LLSYRDVQDYSAIIELVETLQALPTCDVAEQHNVCFHYYTFALNRRNRPGDRAKALSVLLPLVQLEGSVAP
DLYCMCGRIYKDMFFSSGFQDAGHREQAYHWYRKAFFDVEPSLHSGINAALLIAAGQHFEDSKELRLIGM
KLGCLLARKGCVEKMQYYWVDFYLGAILANDPTQVVLAAEQLYKLNAPIWYLVSMETFLLYQHFRPT
PEPPGGPPRAHFWLHFLQSCQPFTACAQGDQCLVLEMNKVLPAKLEVRGTDVSTVTLALLEPE
TQDIPSSWTFPVASICGVSASKRDERCCFLYALPPAQDVQLCFPSVGHQCWFQGLIQAQWVTPNDSTAPAE
EAEGAGEMLEFDYEYETGERLVLGKGTGVVYAGRDRHTRVRIAIKEIPERDSRFSQLHEEIALHRRLL
RHKNIYRVLGSASQGGYKIFMEEVPGGSLSSLLRSVWGPLKDNESTISFYTRQILQGLGYLHDNHIVHR
DIKGDVNLINTFSGLLKISDFGTSKRLAGITPCTETFTGTQYMAPEIIDQGRGYGKAADIWSLGTCTVI
EMATGRPPFHELGSPQAAMFQVGMKYVHPPMPSSLSAEQAFLRTFEPDPRLRASAQTLGDPFLQPGK
RSRSPSSPRHAPRSDAPSASPTPSANSTTQSQTFFPCQAPSQHPPSPKRCLSYGGTSQLRVPEEPAAE
EPASPEESSGLSLLHQESKRRAMLAAVLEQELPALAENLHQEQKQEQGARLGRNHVEELLRCLGAHIHTP
NRRQLAQELRALQGRRAQGLPALLHRPLFAFPDAVKQILRKRQIRPHWMFVLDSSLRAVRAALGVLG
PEVEKEAVSPRSEELNEGDSQQSPGQQSPLPVEPEQGPAPLMVQLSLLRAETDRLREILAGKEREYQAL
VQRALQRLNEEARITYVLAPEPPTALSTDQGLVQWLQELNVDSGTIQMLLNHSFTLHTLLTYATRDDLIYT
RIRGGMVCRIRWAILAQAGSTPVTSGP
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4199_g03.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_004672

ORF Size: 3864 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_004672.5](#)

RefSeq Size: 4333 bp

RefSeq ORF: 3867 bp

Locus ID: 9064

UniProt ID: [O95382](#)

Cytogenetics: 1p36.11

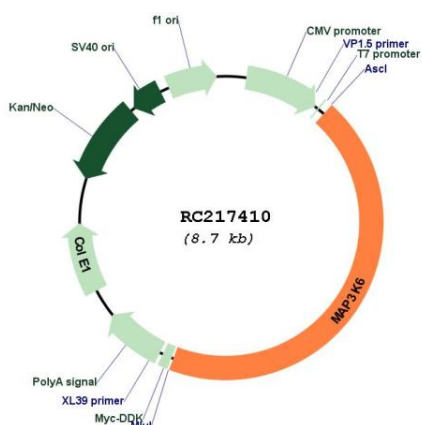
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway

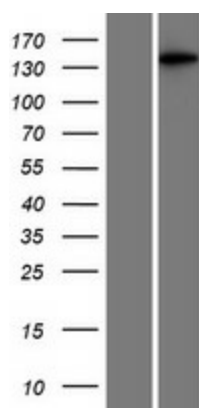
MW: 142.4 kDa

Gene Summary: This gene encodes a serine/threonine protein kinase that forms a component of protein kinase-mediated signal transduction cascades. The encoded kinase participates in the regulation of vascular endothelial growth factor (VEGF) expression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RC217410



Western blot validation of overexpression lysate (Cat# [LY417804]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217410 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).