

Product datasheet for **RG217410**

MAP3K6 (NM_004672) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAP3K6 (NM_004672) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MAP3K6
Synonyms: ASK2; MAPKKK6; MEKK6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217410 representing NM_004672
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGCGCGCC

ATGGCGGGGCGGTGTCCCGGTCCGGGGCGGAGCGCGCCGGCAGCTGCTGGCAGGACCCGCTGGCCGTGG
 CGCTGAGCCGGGGCCGGCAGCTCGCGGCCCGCCCGGGCCGGGGCTGCGCGCGGAGCCGGCCGCTCAGCGT
 GGTCTACGTGCTGACCCGGGAGCCGAGCCCGGGCTCGAGCCTCGGGAGGGAACCGAGCCGAGCCGCTG
 CCCCTGCGCTGCCTGCGGAGGCTTGCAGCGAGGTCGCCCGCCCGGCCCGCCCGCAGCTGCGCAGCC
 TGCCCTTCGGGACGCTGGAGCTAGGCGACACCGCGGCTCTGGATGCCTTCTACAACGCGGATGTGGTGGT
 GCTGGAGGTGAGCAGCTCGCTGGTACAGCCCTCCCTGTTCTACCACCTTGGTGTGCGTGAGAGCTTCAGC
 ATGACCAACAATGTGCTCCTCTGCTCCCAGGCCGACCTCCCTGACCTGCAGGCCCTGCGGGAGGATGTTT
 TCCAGAAGAACTCGGATTGCGTTGGCAGCTACACACTGATCCCCTATGTGGTGACGGCCACTGGTCGGGT
 GCTGTGTGGTGTGACAGGCCCTTTCGCGGGCCCTGGCTGATGGGCTGGTACAGGCTGGAGTGGGACCCGAG
 GCCCTGCTCACTCCCCTGGTGGGCCGGCTTGCCTGCTGGAGGCCACACCCACAGACTCTTGTGGCT
 ATTTCCGGGAGACCATTCGGCGGGACATCCGGCAGGCGCGGGAGCGGTTTCAGTGGCCACAGCTGCGGCA
 GGAGCTGGCTCGCTGCAGCGGAGACTGGACAGCGTGGAGCTGCTGAGCCCCGACATCATCATGAACCTG
 CTGCTCTCCTACCGCGATGTGCAGGACTACTCGGCCATCATTGAGCTGGTGGAGACGCTGCAGGCCCTGC
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 GCCTGGGACCGGGCAAGGCCCTGTCTGTGCTGCTGCCGCTGGTACAGCTTGGAGGCTCTGTGGCGCCC
 GATCTGTACTGCATGTGTGGCCGATCTACAAGGACATGTTCTTTCAGCTCGGGTTTCCAGGATGCTGGGC
 ACCGGGAGCAGGCCTCACTGGTATCGCAAGGCTTTTGACGTAGAGCCAGCCTTCACTCAGGCATCAA
 TGCAGCTGTGCTCCTCATTGCTGCCGGCAGCACTTTGAGGATCCAAAGAGCTCCGGCTAATAGGCATG
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 CAATGCCCCATATGGTACCTGGTGTCCGTGATGGAGACCTTCTGCTCTACCAGCACTTCAGGCCACG



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CCAGAGCCCCCTGGAGGGCCACCACGCCGTGCCCACTTCTGGCTCCACTTCTTGCTACAGTCTGCCAAC
 CATTCAAGACAGCCTGTGCCAGGGCGACCAGTCTTGGTCTGGTCTGGAGATGAACAAGGTGCTGCT
 GCCTGCAAAGCTCGAGGTTCTGGGTTACTGACCCAGTAAGCACAGTACCCTGAGCCTGCTGGAGCCTGAG
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 TTTCAGCAACTCAACCACCCAGTCTCAGACATTCCTGTCCTCAGGACCCCTCAGCACCCACCCAG
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 GGGGGCCCGTCTGGGCAGAAACCATGTGAAGAGCTGCTGCGCTCGGGGCACACATCCACACTCCC
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 GCCAGGCCAGCAGAGCCCGCTCCGGTGGAGCCGAGCAGGGCCCGCTCCTCTGATGGTGCAGCTGAG
 CCTTTGAGGGCAGAGACTGATCGGCTGCGGAAATCCTGGCGGGGAAGGAACGGGAGTACCAGGCCCTG
 GTGACGCGGGCTCTACAGCGGCTGAATGAGGAAGCCCGACCTATGTCTGGCCCCAGAGCCTCCAAGT
 CTCTTTCAACGGACCAGGCCTGGTGCAGTGGCTACAGGAACGAATGTGGATTCAGGCACCATCCAAT
 GCTGTTGAACCATAGCTTCAACCTCCACTCTGCTCACCTATGCCACTCGAGATGACCTCATCTACACC
 CGCATCAGGGGAGGGATGGTATGCCGATCTGGAGGGCCATCTTGGCACAGCGAGCAGGATCCACACCAG
 TCACCTCTGGACCC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG217410 representing NM_004672
 Red=Cloning site Green=Tags(s)

MAGPCPRSGAERAGSCWQDPLAVALSRGRQLAAPPGRGCARSRPLSVVYVLTREPQPGLEPREGTEAEPL
 PLRCLREACAQVPRPRPPQLRSLPFGTLELGDTAALDAFYNAVIVVLEVSSSLVQPSLFYHLGVRESFS
 MTNNVLLCSQADLPDLQALREDVDFQKNSDCVGSYTLIPYVVYVATGRVLCGDAGLLRGLADGLVQAGVGT
 ALLTPLVGRRLARLLEATPTDSCGYFRETIRRRIRQARERFSGPQLRQELARLQRRLDSEVLLSPDIIMNL
 LLSYRDVQDYSAIIELVETLQALPTCDVAEQHNVCFHHTFALNRRNRPGDRAKALSVLLPLVQLEGSVAP
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 KLGCLLARKGCVEKMQYYWVDFYLGAILANDPTQVVLAAEQYLKLNAPIWYLVSVMETFLYQHFRT
 PEPPGGPPRAHFWLHFLQSCQPFKTAQAQGDQCLVLEMNKVLPAKLEVRGTDVSTVTLALLEPE
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 EAEGAGEMLEFDYEYETGERLVLGKGTGVVYAGRDRHTRVRIAIKEIPERDSRFSQLHEEIALHRRLL
 RHKNIVRYLGSASQGGYKIFMEEVPGGSLSSLLRSVWGPKDNESTISFYTRQILQGLGYLHDNHVHR
 DIKGDVNLINTFSGLLKISDFGTSKRLAGITPCTETFTGTQYMAPEIIDQGRGYGKAADIWSLGTCTVI
 EMATGRPPFHELGSPAAMFQVGMVKVHPPMPSSLSAEQAFLLRTEPDRRLRASAQTLGDPFLQPGK
 RSRSPSSPRHAPRSDAPSASPTPSANSTQSQTFFPCQAPSQHPPSPKRCLSYGGTSQLRVPEEPAAE
 EPASPEESSGLSLLHQESKRRAMLAAVLEQELPALAENLHQEQKQEQGARLGRNHVEELLRCLGAHIHTP
 NRRQLAQELRALQGRRAQGLPALLHRPLFAFPDAVKQILRKRQIRPHWMFVLDSSLRAVRAALGVLG
 PEVEKEAVSPRSEELSNEGDSQQSPGQQSPLPVEPEQGPAPLMVQLSLLRAETDRLREILAGKEREYQAL
 VQRALQRLNEEARTYVLAPEPPTALSTDQGLVQWLQELNVDSGTIQMLLNHSFTLHTLLTYATRDDLIYT
 RIRGGMVCRIRAILAQAGSTPVTSGP

TRTRPLE - GFP Tag - V

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](#)

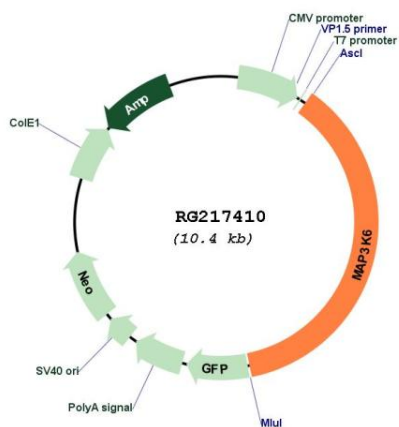
Cytogenetics: 1p36.11

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway

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 RG217410