

Product datasheet for **RG200358**

MAPKAP Kinase 3 (MAPKAPK3) (NM_004635) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPKAP Kinase 3 (MAPKAPK3) (NM_004635) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAPKAP Kinase 3
Synonyms:	3PK; MAPKAP-K3; MAPKAP3; MAPKAPK-3; MDPT3; MK-3; MK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200358 representing NM_004635 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGGTGAACAGCAGAGGAGCAGGGGGGCCCTGTGCCCCGCCAGTTGCACCCGGCGGACCCGGCT
TGGGCGGTGCTCCGGGGGGCGCGGGAGCCAAAGAAAGTACGCAGTGACCGGACTACCAGTTGTCCAA
GCAGGTGCTGGGCTGGGTGTGAACGGCAAAGTCTGGAGTGTCCATCGGCGCACTGGACAGAAGTGT
GCCCTGAAGCTCCTGTATGACAGCCCCAAGGCCCGGCAGGAGGTAGACCATCACTGGCAGGCTTCTGGCC
GCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAAGCGCTGTCTCCTCATCAT
CATGGAATGCATGGAAGTGGTGTGTTTCAGCAGGATTCAGGAGCGTGGCGACCAAGGCTTTCAGTGG
AGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAACATTGCC
ACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAGACGCAGTGTAAAGCTCACCGA
TTTTGGCTTTGCTAAGGAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTATTATGTGGCC
CCTGAGGTCTGGGTCCAGAGAAGTATGACAAGTATGTGACATGTGGTCCCTGGGTGTCATCATGTACA
TCCTCCTTTGTGGCTTCCACCCTTCTACTCCAACACGGGCCAGGCCATCTCCCCGGGATGAAGAGGAG
GATTCGCTGGCCAGTACGGCTTCCCCAATCTGAGTGGTCTGAGAAGTCTCTGAGGATGCCAAGCAGCTG
ATCCGCCCTCCTGTTGAAGACAGACCCACAGAGAGGCTGACCATCACTCAGTTTCAATGAACACCCCTGGA
TCAACCAATCGATGGTAGTGCCACAGACCCCACTCCACACGGCCCGAGTGTGTCAGGAGGACAAAGACCA
CTGGGACGAAGTCAAGGAGGAGATGACCAGTGCCTTGGCCACTATGCGGGTAGACTACGACCAGGTGAAG
ATCAAGGACCTGAAGACCTCTAACAACCGCTCCTCAACAAGAGGAGAAAAAAGCAGGCAGGCAGCTCCT
CTGCCTCACAGGCTGCAACAACCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200358 representing NM_004635
 Red=Cloning site Green=Tags(s)

```
MDGETAEEQGGPVPVPPVAPGGPGLGGAPGGRREPKKYAVTDDYQLSKQVLGLGVNGKVLFCFHRRTGQKC
ALKLLYDSPKARQEVDDHHWQASGGPHIVCILDVYENMHGKRCLLIIMECMEGGELFSRIQERGDQAFTE
REAAEIMRDIGTAIQFLHSHNIAHRDVKPENLLYTSKEKDAVLKLTDFGFAKETTQNALQTPCYTPYYVA
PEVLGPEKYDKSCDMWSLGVIMYILLCGFPPFYNTGQAI SPGMKRRIRLGOYGFNPWEVSEDAKQL
IRLLLLKTDPTERTITQFMNHPWINQSMVVPQTPLHTARVLQEDKDHWEVKEEMTSALATMRVDYDQVK
IKDLKTSNNRLLNKRRKKQAGSSASQGCNNQ
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004635

ORF Size: 1146 bp

OTI Disclaimer: 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_004635.4](#)

RefSeq Size: 2500 bp

RefSeq ORF: 1149 bp

Locus ID: 7867

UniProt ID: [Q16644](#)

Cytogenetics: 3p21.2

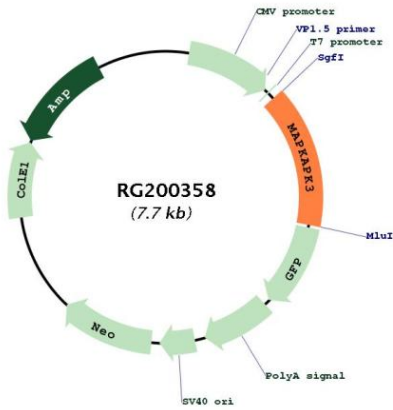
Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway, VEGF signaling pathway

Gene Summary: This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG200358