

Product datasheet for **RG233933**

MAPKAP Kinase 3 (MAPKAPK3) (NM_001243925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPKAP Kinase 3 (MAPKAPK3) (NM_001243925) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAPKAPK3
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:	>RG233933 representing NM_001243925 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGGTGAACAGCAGAGGAGCAGGGGGCCCTGTGCCCCGCCAGTTGCACCCGGCGGACCCGGCT
TGGGCGGTGCTCCGGGGGGCGCGGGAGCCAAAGAAAGTACGCAGTGACCGAGACTACCAGTTGTCCAA
GCAGGTGCTGGGCTGGGTGTGAACGGCAAAGTCTGGAGTGTCCATCGGCGCACTGGACAGAAGTGT
GCCCTGAAGCTCCTGTATGACAGCCCCAAGGCCCGGCAGGAGGTAGACCATCACTGGCAGGCTTCTGGCG
GCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAAGCGCTGTCTCCTCATCAT
CATGGAATGCATGGAAGTGGTGTGAGTTGTTTCAGCAGGATTCAGGAGCGTGGCGACCAAGGCTTTCAGTGA
AGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAACATTGCC
ACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAAGACGCAGTGTAAAGCTCACCGA
TTTTGGCTTTGCTAAGGAGACCACCAAATGCCCTGCAGACACCCTGTATACTCCCTATTATGTGGCC
CCTGAGGTCTGGGTCCAGAGAAGTATGACAAGTCATGTGACATGTGGTCCCTGGGTGTCATCATGTACA
TCCTCCTTTGTGGCTTCCACCCCTTCTACTCCAACACGGGCCAGGCCATCTCCCCGGGTGAAGAGGAG
GATTCGCTGGCCAGTACGGCTTCCCCAATCTGAGTGGTCAGAAGTCTCTGAGGATGCCAAGCAGCTG
ATCCGCCCTCCTGTTGAAGACAGACCCACAGAGAGGCTGACCATCACTCAGTTTCATGAACACCCCTGGA
TCAACCAATCGATGGTAGTGCCACAGACCCCACTCCACACGGCCGAGTGTGTCAGGAGGACAAAGACCA
CTGGGACGAAGTCAAGGAGGAGATGACCAGTGCCTTGGCCACTATGCGGGTAGACTACGACCAGGTGAAG
ATCAAGGACCTGAAGACCTCTAACAACCGCTCCTCAACAAGAGGAGAAAAAGCAGGCAGGCAGCTCCT
CTGCCTCACAGGCTGCAACAACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233933 representing NM_001243925
 Red=Cloning site Green=Tags(s)

MDGETAEEQGGPVPVPPVAPGGPGLGGAPGGRRPKKYAVTDDYQLSKQVLGLGVNGKVLFCFHRRTGQKC
 ALKLLYDSPKARQEVDDHHWQASGGPHIVCILDVYENMMHGGKRCLLIIMECMEGGELFSRIQERGDQAFTE
 REAAEIMRDIGTAIQFLHSHNIAHRDVKPENLLYTSKEKDAVLKLTDFGFAKETTQNALQTPCYTPYYVA
 PEVLGPEKYDKSCDMWSLGVIMYILLCGFPFYSNTGQAI SPGMKRRIRLGOYGFNPWEVSEDAKQL
 IRLLLKTDPTERLTITQFMNHPWINQSMVVPQTPLHTARVLQEDKDHWEVKEEMTSALATMRVDYDQVK
 IKDLKTSNNRLLNKRRKKQAGSSASQGCNNQ

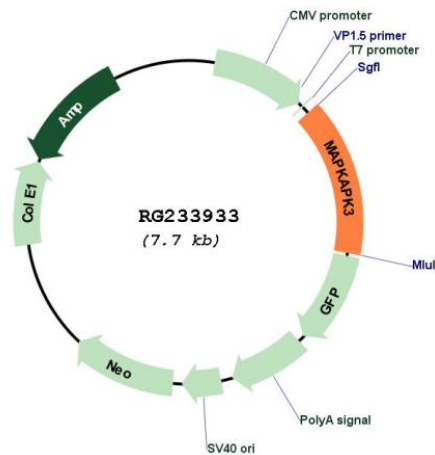
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243925

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:	<ol style="list-style-type: none">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_001243925.2
RefSeq Size:	2568 bp
RefSeq ORF:	1149 bp
Locus ID:	7867
UniProt ID:	Q16644
Cytogenetics:	3p21.2
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]