

Product datasheet for **RG221366**

MAP4K1 (NM_001042600) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP4K1 (NM_001042600) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAP4K1
Synonyms:	HPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221366 representing NM_001042600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGTCGTGGACCCTGACATTTTCAATAGAGACCCCCGGGACCCTATGACCTGCTACAGCGGCTGG
 GTGGCGGCACGTATGGGGAAGTCTTTAAGGCTCGAGACAAGGTGTCAGGGGACCTGGTGGCACTGAAGAT
 GGTGAAGATGGAGCCTGATGATGATGTCTCCACCTTCAGAAGGAAATCCTCATATTGAAAACTGCCGG
 CACGCCAACATCGTGGCCTACCATGGGAGTTATCTCTGGTTGCAGAACTCTGGATCTGCATGGAATTCT
 GTGGGGCTGGTTCTCTCCAGGACATCTACCAAGTGACAGGCTCCCTGTCAGAGCTCCAGATTAGCTATGT
 CTGCCGGGAAGTCTCCAGGGACTGGCCTATTTGCACTCACAGAAGAAGATACACAGGGACATCAAGGGA
 GCTAACATCCTCATCAATGATGCTGGGGAGGTGAGATTGGCTGACTTTGGCATCTCGGCCAGATTGGGG
 CTACACTGGCCAGACGCCTCTTTTCATTGGGACACCCTACTGGATGGCTCCGGAAGTGGCAGCTGTGGC
 CCTGAAGGGAGGATACAATGAGCTGTGTGACATCTGGTCCCTGGGCATCACGGCCATCGAACTGGCCGAG
 CTACAGCCACCGCTCTTTGATGTGACCCCTCTCAGAGTTCTTCTCCTCATGACCAAGAGTGGCTACCAGC
 CTCCCCGACTGAAGGAAAAGGCAAATGGTCCGGCTGCCTTCCACAACCTCATCAAAGTCACTCTGACTAA
 GAGTCCCAAGAAACGACCCAGCGCCACCAAGATGCTCAGTCATCAACTGGTATCCAGCCTGGGCTGAAT
 CGAGGCCCTGATCCTGGATCTTCTTGACAACTGAAGAATCCCGGGAAGGACCCTCCATTGGGGACATTG
 AGGATGAGGAGCCCGAGCTACCCCTGCTATCCCTCGGCGGATCAGATCCACCCACCGCTCCAGCTCTCT
 GGGGATCCCAGATGCAGACTGCTGTGCGCGGCACATGGAGTTCAGGAAGCTCCGAGGAATGGAGACCAGA
 CCCCCAGCCAACACCGCTCGCCTACAGCCTCCTCGAGACCTCAGGAGCAGCAGCCCCAGGAAGCAACTGT
 CAGAGCTGTGACGATGACTATGACGAGTGGACATCCCCACCCCTGCAGAGGACACACCTCTCCACT
 TCCCCCAAGCCCAAGTTCGGTTCCATCAGACGAGGGTCTGGGAGCATGGGGGATGATGGGCAGCTG
 AGCCCCGGGGTGCTGGTCCGGTGTGCCAGTGGGCCCCACCAAACAGCCCCCGTCTGGGCTCCCCCAT
 CCACCAGCAGCCCCACCTCACCGCCATTGACAACTCACTCTGGAACCCACCCCTCCCGGAGCTTGA
 CAAGCCCCACTTCTGCCCCCAAGAAGAAAAGATGAAGAGAAAGGGATGTGCCCTTCTCGTAAAGTTG
 TTCAATGGCTGCCCCCTCCGGATCCACAGCAGGCGCCTGGACACATCCCTCCACCAAGGACCAGCACC
 TGCTCCTGGGGCAGAGGAAGGCATCTTATCCTGAACCGGAATGACCAGGAGGCCACGCTGGAAATGCT
 CTTTCTAGCCGACTACGTGGGTGACTCCATCAACAACGTTCTCATGTCTCTCTCAGGAAAGACCCCC
 CACCTGTATTCTCATAGCATCCTTGGCCTGCTGGAACGGAAAGAGACCAGAGCAGGAAACCCCATCGCTC
 ACATTAGCCCCACCGCCTACTGGCAAGGAAGAACATGGTTTCCACCAAGATCCAGGACACCAAAGGCTG
 CCGGGCGTGTGTGTGGCGGAGGGTGCAGCTCTGGGGGCCGTTCTGTGCGGTGCATTGGAGACGTCC
 GTTGTCTGCTTCAAGTGTACCAGCCATGAACAAATCCTGCTTGTCCGGCAGGTGCTGTTCCCACTGC
 CGACGCCTCTGTCCGTGTTCCGCTGCTGACCGGGCCAGGCTCTGAGCTGCCCGCTGTGTGCATCGCGT
 GAGCCCCGGGCGGCCGGGAAGTCGGTGTCTTCCACACGGTGCCTTTGGCGCGCTCTTGTGCTGGCTG
 GCGGAGATGAGCACCGAGCACAGGGGACCCGTGCAGGTGACCCAGGTAGAGGAAGATATGGTGATGGTGT
 TGATGGATGGCTCTGTGAAGCTGGTACCCCGGAGGGTCCCCAGTCCGGGGACTTCGCACACCTGAGT
 CCCCATGACCGAAGCGGTGGAGGCGTGGCTATGGTTGGAGGTGAGCTTACAGCCTTCTGGAAGCATGGA
 GTGCAGGTGTGGCTCTAGGCTCGGATCAGCTGCTACAGGAGCTGAGAGACCCCTACCCTCACTTTCCGTC
 TGCTTGGCTCCCCAGGCCTGTAGTGGTGGAGACAGCCCAAGTGGATGATCCTACTGCTCCAGCAACCT
 CTACATCCAGGAA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221366 representing NM_001042600
Red=Cloning site Green=Tags(s)

MDVVDPDIFNRDPRDHYDLLQRLGGGTYGEVFKARDKVSGLVALKMKMEPDDDDVSTLQKEILILKTCR
HANIVAYHGSYLWLQKLWICMEFCGAGSLQDIYQVTGSLSELQISYVCREVLQGLAYLHSQKKIHRDIKG
ANILINDAGEVRLADFGISAQIGATLARRLSFIGTPYWMAPEVAVALKGGYNELCDIWSLGITAIELAE
LQPPFLFDVHPLRVLFMTKSGYQPPRLKEKGKWSAAFHNFIKVTLTSPKKRPSATKMLSHQLVSPGLN
RGLILDLLDKLKNPGKGPSIGDIEDEEPELPPAIPRRIRSTHRSSSLGIPDADCCRRHMEFRKLRGMETR
PPANTARLQPPRDLRSSSPRKQLSESSDDYDDVDIPTAEDTPPPLPPKPKFRSPSDEGPGSMGDDGQL
SPGVLVRCASGPPNSPRPGPPPSTSSPHLTAHSEPSLWNPPSRELDKPPLLPPKKEKMKRKGCALLVKL
FNGCPLRIHSTAATHPSTKDQHLLLGAEEGIFILNRNDQEATLEMLFPSRTTWVYSINNVLMSLSGKTP
HLYSHSILGLLERKETRAGNPIAHISPHRLLARKNMVSTKIQDTKGRACCVAEGASSGGPFLCGALET
VVLLQWYQPMNKFLLVRQVLFPLPTPLSVFALLTGPGESELPVAVIGVSPGRPGKSVLFHTVRFGALSCWL
GEMSTEHRGPVQVTQVEEDMVMVLMDGSVKLVTPGSPVRLRTPPEIPMTEAVEAVAMVGGQLQAFWKHG
VQVWALGSDQLLQELRDPTLTFRLLGSPRPVVVETRPVDDPTAPSNLYIQE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

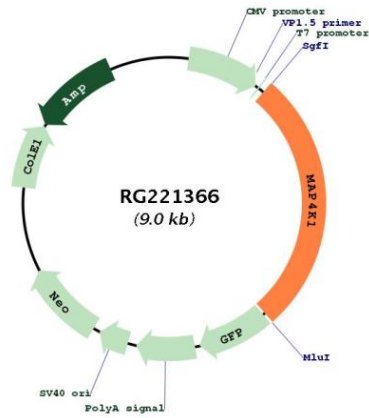
Cloning sites used for ORF Shutting:



ACCN: NM_001042600
 ORF Size: 2463 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_001042600.3
RefSeq Size:	2688 bp
RefSeq ORF:	2466 bp
Locus ID:	11184
UniProt ID:	Q92918
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway
Gene Summary:	<p>Serine/threonine-protein kinase, which may play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway. May play a role in hematopoietic lineage decisions and growth regulation. Able to autophosphorylate. [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG221366