

## Product datasheet for **RG200606**

### **SAPK4 (MAPK13) (NM\_002754) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SAPK4 (MAPK13) (NM_002754) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SAPK4
Synonyms:	MAPK-13; MAPK 13; p38delta; PRKM13; SAPK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200606 representing NM_002754 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCTCATCCGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACCGCCTGGGAGCTGCCAAGA  
CCTACGTGTCCCGACGCACGTCCGCGAGCGGGCCTATGGCTCCGTGTGCTCGGCCATCGACAAGCGGT  
AGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCCTTCAGTCCGAGATCTTCGCCAAGCGGCCTAC  
CGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCATTGGGCTCCTGGATGTCTTACCCAG  
CCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGTGCCCTTCATGCAGACGGATCTGCAGAAGAT  
CATGGGGATGGAGTTCAGTGAGGAGAAGATCCAGTACCTGGTGTATCAGATGCTCAAAGGCCTTAAGTAC  
ATCCACTCTGCTGGGGTCTGTCACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAC  
TGAAGATTCTGGATTTTGGGCTGGCGGACATGCAGACGCCGAGATGACTGGCTACGTGGTACCCGCTG  
GTACCGAGCCCCGAGGTGATCCTCAGCTGGATGCACTACAACCAGACAGTGGACATCTGGTCTGTGGG  
TGATCATGGCAGAGATGCTGACAGGAAAACTCTGTTCAAGGGGAAAGATTACCTGGACCAGCTGACCC  
AGATCCTGAAAGTGACCGGGTGCCTGGCACGGAGTTTGTGCAGAAGCTGAACGACAAAGCGCCAAATC  
CTACATCCAGTCCCTGCCACAGACCCCCAGGAAGGATTTCACTCAGCTGTTCCCACGGCCAGCCCCAG  
GCTCGGACCTGCTGGAGAAGATGCTGGAGCTAGACGTGGACAAGCGCCTGACGGCCGCGCAGGCCCTCA  
CCATCCCTTCTTTGAACCCTTCCGGGACCCTGAGGAAGAGACGGAGGCCAGCAGCCGTTTGATGATTC  
CTTAGAACACGAGAACTCACAGTGGATGAATGGAAGCAGCACATCTACAAGGAGATTGTGAACTTCAG  
CCCATTGCCCGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200606 representing NM\_002754  
 Red=Cloning site Green=Tags(s)

MSLIRKKGFKYKQDVNKTAWELPKTYVSPTHVGSAGYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAY  
 RELLLLKHMQHENVIGLLDVFTPASSLRNFYDFYL VMPFMQTDLQKIMGMEFSEEKIQYL VYQMLKGLKY  
 IHSAGVVHRDLKPGNLAVNEDCELIKILDFGLARHADAEMTGYYVTRWYRAPEVILSWMHYNQTVDIWSVG  
 CIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGTETVQKLNDKAAKSYIQSLPQTPRKDFTLFPRASPQ  
 AADLLEKMLELDVDKRLTAAQALTHPFFEPFRDPEEETAQQPFDDSLHEKLTVDWKQHIYKEIVNFS  
 PIARKDSRRRSGMKL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002754

**ORF Size:** 1095 bp

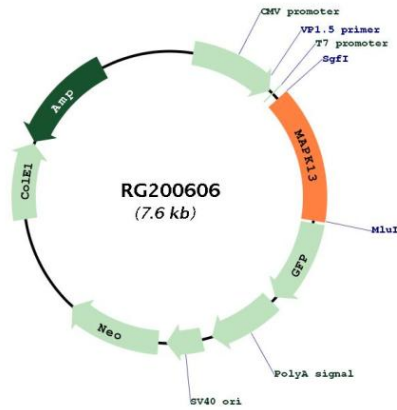
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002754.3</a> , <a href="#">NP_002745.1</a>
<b>RefSeq Size:</b>	1888 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	5603
<b>UniProt ID:</b>	<a href="#">O15264</a>
<b>Cytogenetics:</b>	6p21.31
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway
<b>Gene Summary:</b>	This gene encodes a member of the mitogen-activated protein (MAP) kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The encoded protein is a p38 MAP kinase and is activated by proinflammatory cytokines and cellular stress. Substrates of the encoded protein include the transcription factor ATF2 and the microtubule dynamics regulator stathmin. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG200606