

Product datasheet for **RG204857**

SAPK3 (MAPK12) (NM_002969) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAPK3 (MAPK12) (NM_002969) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SAPK3
Synonyms:	ERK-6; ERK3; ERK6; MAPK 12; P38GAMMA; PRKM12; SAPK-3; SAPK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204857 representing NM_002969 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCTCCGCCGCCCGCCGAGTGGCTTTTACCGCCAGGAGGTGACCAAGACGGCCTGGGAGGTGC
GCGCCGTGTACCGGGACCTGCAGCCCGTGGGCTCGGGCGCCTACGGCGCGGTGTGCTCGGCCGTGGACGG
CCGCACCGGCGCTAAGGTGGCCATCAAGAAGCTGTATCGGCCCTCCAGTCCGAGCTGTTCCGAAGCGC
GCCTACCGCGAGCTGCGCTGCTCAAGCACATGCCACGAGAAGTGTATCGGGCTGCTGGACGTATTCA
CTCCTGATGAGACCCTGGATGACTTCACGACTTTTACCTGGTGTATGCCGTTTCATGGGCACCGACTGGG
CAAGCTCATGAAACATGAGAAGCTAGGCGAGGACCGGATCCAGTTCCTCGTGTACCAGATGCTGAAGGGG
CTGAGGTATATCCACGCTGCCGGCATCATCCACAGAGACCTGAAGCCCGCAACCTGGCTGTGAACGAAG
ACTGTGAGCTGAAGATCCTGGACTTCGGCTGGCCAGGCAGGCAGACAGTGAAGTACTGGGTACGTGGT
GACCCGGTGGTACCGGGCTCCCGAGGTCATCTTGAATTGGATGCGCTACACGCAGACGGTGGACATCTGG
TCCGTGGGCTGCATCATGGCGGAGATGATCACAGGCAAGACGCTGTTCAAGGGCAGCGACCACCTGGACC
AGCTGAAGGAGATCATGAAGGTGACGGGGACGCCTCCGGCTGAGTTTGTGCAGCGGCTGCAGAGCGATGA
GGCCAAGAAGTACATGAAGGGCTCCCGAATTGGAGAAGAAGGATTTTGCCTCTATCCTGACCAATGCA
AGCCCTCTGGCTGTGAACCTCCTGGAGAAGATGCTGGTGTGACGCGGAGCAGCGGTGACGGCAGGGC
AGGCGCTGGCCATCCCTACTTCGAGTCCCTGCAGACACGGAAGATGAGCCCCAGGTCCAGAAGTATGA
TGAATCCTTTGACGACGTTGACCGCACACTGGATGAATGGAAGCGTGTACTTACAAAGAGGTGCTCAGC
TTCAAGCCTCCCGCGAGCTGGGGCCAGGCTCTCAAGGAGACGCCTCTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204857 representing NM_002969
Red=Cloning site Green=Tags(s)

MSSPPPARSGFYRQEVTKTAWEVRAVYRDLQPVGSGAYGAVCSAVDGRGTGAKVAIKKLYRPFQSELFKR
 AYRELRLLKMRHENVIGLLDVFTPDETLDDFTDFYL VMPFMGTDLGKLMKHEKLGEDRIQFLVYQMLKG
 LRYIHAAGIIHRDLKPGNLAVNEDCELIKILDFGLARQADSEMTGYVVTRWYRAPEVILNWMRYTQTVDIW
 SVGCIMAEMITGKTLFKGSDHLDLKEIMKVTGTPPAEFVQRLQSDAEAKNYMKGLPELEKKDFASILTNA
 SPLAVNLLKMLVLD AEQRTVAGEALAHYPYFESLHDTDEPQVQKYDDSFDDVDRTLDEWKRVTYKEVLS
 FKPPRQLGARVSKETPL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002969

ORF Size: 1101 bp

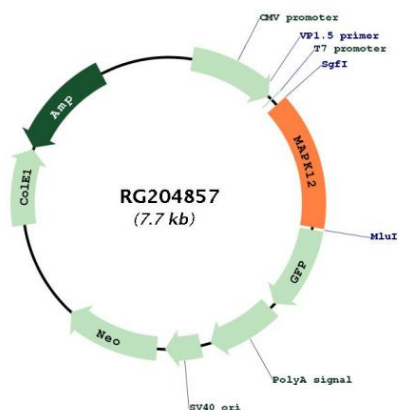
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_002969.3 , NP_002960.2
RefSeq Size:	1778 bp
RefSeq ORF:	1104 bp
Locus ID:	6300
UniProt ID:	P53778
Cytogenetics:	22q13.33
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	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, Oocyte meiosis, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway
Gene Summary:	Activation of members of the mitogen-activated protein kinase family is a major mechanism for transduction of extracellular signals. Stress-activated protein kinases are one subclass of MAP kinases. The protein encoded by this gene functions as a signal transducer during differentiation of myoblasts to myotubes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204857