

Product datasheet for **SC310481**

SAPK3 (MAPK12) (NM_002969) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAPK3 (MAPK12) (NM_002969) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPK12
Synonyms:	ERK-6; ERK3; ERK6; MAPK 12; P38GAMMA; PRKM12; SAPK-3; SAPK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310481 representing NM_002969. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGAGCTCTCCGCCGCCCGCCGAGTGGCTTTTACCGCCAGGAGGTGACCAAGACGGCCTGGGAGGTG
CGCGCCGTGTACCGGGACCTGCAGCCCGTGGGCTCGGGCGCCTACGGCGCGGTGTCTCGGCCGTGGAC
GGCCGCACCGGCCTAAGGTGGCCATCAAGAAGCTGTATCGGCCCTTCCAGTCCGAGCTGTTCCGCAAG
CGCGCCTACCGGAGCTGCGCCTGCTCAAGCACATGCCACGAGAACGTGATCGGGCTGCTGGACGTA
TTCCTCTGATGAGACCCTGGATGACTTCACGGACTTTTACCTGGTGTGCCGTTTCATGGCACCAGC
CTGGCAAGCTCATGAAACATGAGAAGCTAGGCGAGGACCGGATCCAGTTCCTCGTGTACCAGATGCTG
AAGGGGCTGAGGTATATCCACGCTGCCGCATCATCCACAGAGACCTGAAGCCCGCAACCTGGCTGTG
AACGAAGACTGTGAGCTGAAGATCCTGGACTTCGGCCTGGCCAGGCAGGCAGACAGTGTGATGACTGGG
TACGTGGTGACCCGGTGGTACCGGGCTCCCGAGGTCATCTTGAATTGGATGCGCTACACGCAGACGGTG
GACATCTGGTCTGTGGGCTGCATCATGGCGGAGATGATCACAGGCAAGACGCTGTTCAAGGGCAGCGAC
CACCTGGACCAGCTGAAGGAGATCATGAAGGTGACGGGGACGCCCTCCGGCTGAGTTTGTGACGGGCTG
CAGAGCGATGAGGCCAAGAAGTACATGAAGGGCCTCCCGAATTGGAGAAGAAGGATTTGCCTCTATC
CTGACCAATGCAAGCCCTCTGGCTGTGAACCTCCTGGAGAAGATGCTGGTGTGGACGCGGAGCAGCGG
GTGACGGCAGGCGAGGCGCTGGCCATCCCTACTTCGAGTCCCTGCACGACGGAAGATGAGCCCGCAG
GTCCAGAAGTATGATGACTCCTTTGACGACGTTGACCGCACACTGGATGAATGGAAGCGTGTACTTAC
AAAGAGGTGCTCAGCTTCAAGCCTCCCGGCAGCTGGGGCCAGGTCTCCAAGGAGACGCCTCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI



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Plasmid Map:	□
ACCN:	NM_002969
Insert Size:	1104 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_002969.4
RefSeq Size:	1877 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
MW:	41.9 kDa

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).