

#### OriGene Technologies, Inc.

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# Product datasheet for RC204857

### SAPK3 (MAPK12) (NM\_002969) Human Tagged ORF Clone

#### **Product data:**

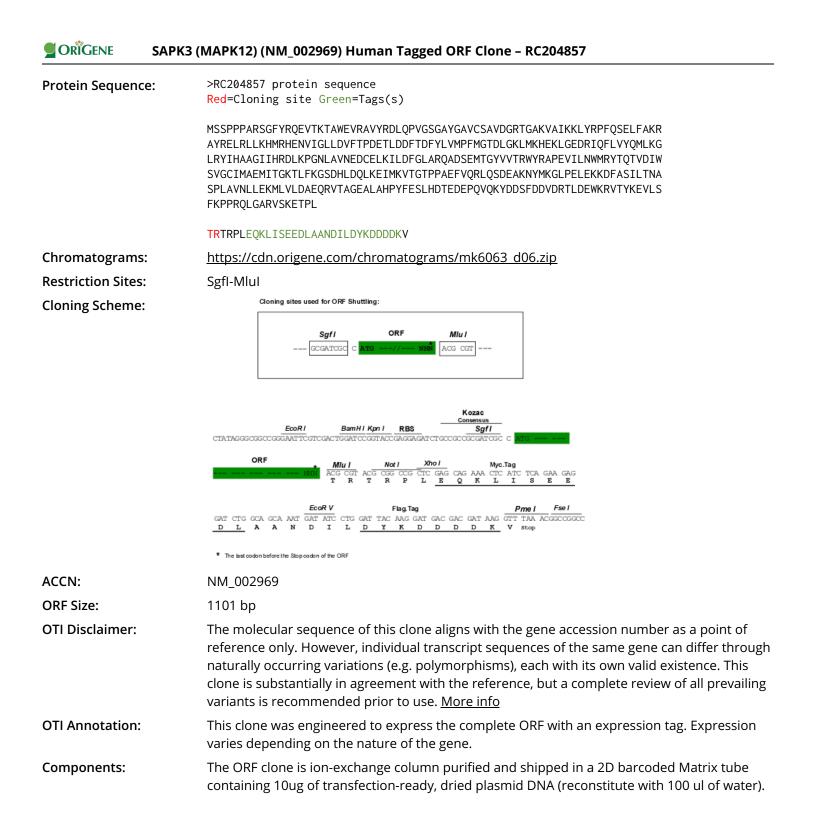
Product Type:	Expression Plasmids
Product Name:	SAPK3 (MAPK12) (NM_002969) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SAPK3
Synonyms:	ERK-6; ERK3; ERK6; MAPK 12; P38GAMMA; PRKM12; SAPK-3; SAPK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC204857 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGCTCTCCGCCGCCGCCGCAGTGGCTTTTACCGCCAGGAGGTGACCAAGACGGCCTGGGAGGTGC GCGCCGTGTACCGGGACCTGCAGCCCGTGGGCTCGGGCGCCTACGGCGGGGTGTGCTCGGCCGTGGACGG CCGCACCGGCGCTAAGGTGGCCATCAAGAAGCTGTATCGGCCCTTCCAGTCCGAGCTGTTCGCCAAGCGC GCCTACCGCGAGCTGCGCCTGCTCAAGCACATGCGCCACGAGAACGTGATCGGGCTGCTGGACGTATTCA CTCCTGATGAGACCCTGGATGACTTCACGGACTTTTACCTGGTGATGCCGTTCATGGGCACCGACCTGGG CAAGCTCATGAAACATGAGAAGCTAGGCGAGGACCGGATCCAGTTCCTCGTGTACCAGATGCTGAAGGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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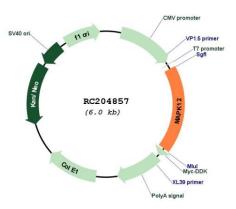


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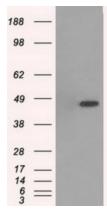
## SAPK3 (MAPK12) (NM\_002969) Human Tagged ORF Clone - RC204857

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 002969.6</u>
RefSeq Size:	1778 bp
RefSeq ORF:	1104 bp
Locus ID:	6300
UniProt ID:	<u>P53778</u>
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]

## **Product images:**

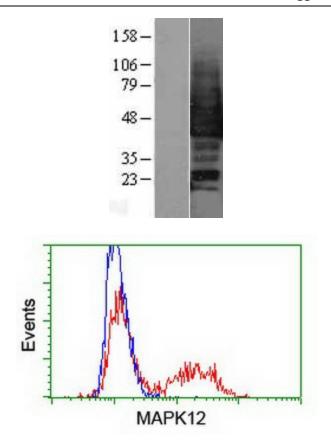


Circular map for RC204857



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAPK12 (Cat# RC204857, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAPK12 (Cat# [TA500500]). Positive lysates [LY401039] (100ug) and [LC401039] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY401039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204857 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

HEK293T cells transfected with either RC204857 overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MAPK12 antibody ([TA500500]), and then analyzed by flow cytometry.

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