

Product datasheet for RC200606

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: Myc-DDK SAPK4 Symbol: Synonyms: MAPK-13; MAPK 13; p38delta; PRKM13; SAPK4 Mammalian Cell Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) **ORF** Nucleotide >RC200606 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGCCTCATCCGGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACCGCCTGGGAGCTGCCCAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**

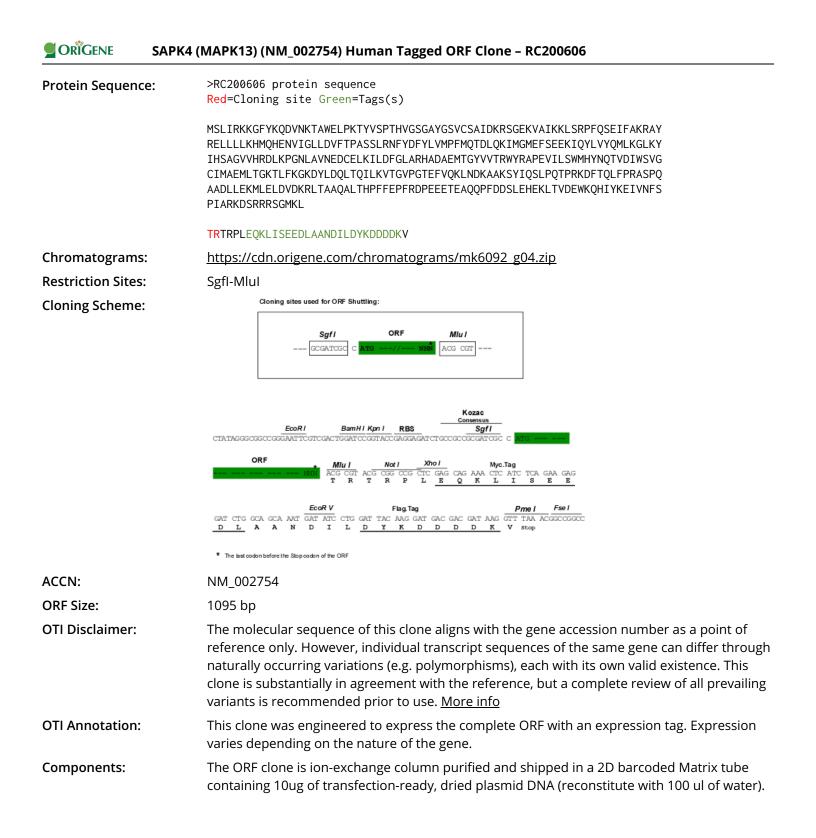


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OriGene Technologies, Inc.

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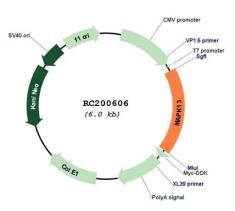
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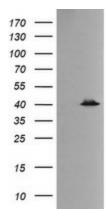
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 002754.3, NP 002745.1</u>
RefSeq Size:	6348 bp
RefSeq ORF:	1098 bp
Locus ID:	5603
UniProt ID:	<u>015264</u>
Cytogenetics:	6p21.31
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, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway
MW:	42.1 kDa
Gene Summary:	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]

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Product images:

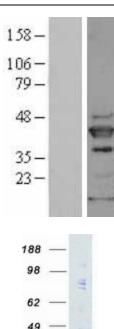


Circular map for RC200606



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAPK13 (Cat# RC200606, 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-MAPK13 (Cat# [TA505878]). Positive lysates [LY400973] (100ug) and [LC400973] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY400973]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200606 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MAPK13 protein (Cat# [TP300606]). The protein was produced from HEK293T cells transfected with MAPK13 cDNA clone (Cat# RC200606) using MegaTran 2.0 (Cat# [TT210002]).

