

Product datasheet for **RC212814**

JNK2 (MAPK9) (NM_002752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JNK2 (MAPK9) (NM_002752) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	JNK2
Synonyms:	JNK-55; JNK2; JNK2A; JNK2ALPHA; JNK2B; JNK2BETA; p54a; p54aSAPK; PRKM9; SAPK; SAPK1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC212814 representing NM_002752
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGCGACAGTAAATGTGACAGTCAGTTTTATAGTGTGCAAGTGGCAGACTCAACCTTCACTGTCCTAA
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TCTTGGGATAAATGTTGCAGTCAAGAACTAAGCCGTCCTTTTCAGAACCAAACCTCATGCAAAGAGAGCT
TATCGTGAACCTGCTCTTAAATGTGTCAATCATAAAAATAAATAGTTTGTAAATGTGTTTACAC
CACAAAAAAGCTCTAGAAGAATTTCAAGATGTGATTTGGTTATGGAATTAATGGATGCTAACTTATGTCA
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Protein Sequence:

>RC212814 representing NM_002752
Red=Cloning site Green=Tags(s)

MSDSKCDQFYSVQVADSTFTVLKRYQQLKPIGSGAQGIVCAAFDVLGINVAVKKLSRPFQNTAKRA
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HLHSAGIIHRDLKPSNIVVKSCTLKILDFGLARTACTNFMMPYVVTRYRAPEVILGMGYKENVDIWS
VGCIMGELVKGCVIFQTDHIDQWNVIEQLGTPSAEFMKKLQPTVRNYVENRPKYLGIKFEELFPDWIF
PSESERDKIKTSQARDLLSKMLVIDPDKRISVDEALRHPYITVWYDPAEAEAPPPQIYDAQLEEREHAIE
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EGCR

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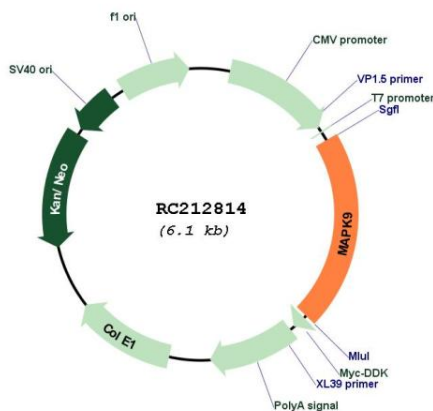
Chromatograms:

https://cdn.origene.com/chromatograms/mk6112_g04.zip

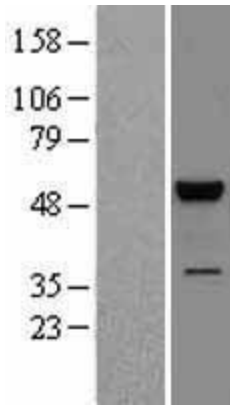
Restriction Sites:

SgfI-MluI

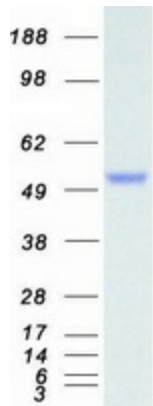
Domains:	pkinese, TyrKc, S_TKc
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, Wnt signaling pathway
MW:	48 kDa
Gene Summary:	The protein encoded by this gene is a member of the 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. This kinase targets specific transcription factors, and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV radiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this gene's mouse counterpart suggest a key role in T-cell differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Sep 2008]

Product images:


Circular map for RC212814



Western blot validation of overexpression lysate (Cat# [LY400972]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212814 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAPK9 protein (Cat# [TP312814]). The protein was produced from HEK293T cells transfected with MAPK9 cDNA clone (Cat# RC212814) using MegaTran 2.0 (Cat# [TT210002]).