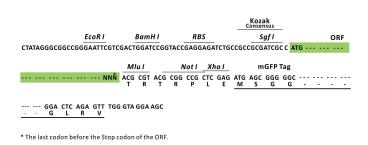


Product datasheet for RC212814L4

JNK2 (MAPK9) (NM_002752) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JNK2 (MAPK9) (NM_002752) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	JNK2
Synonyms:	JNK-55; JNK2; JNK2A; JNK2ALPHA; JNK2B; JNK2BETA; p54a; p54aSAPK; PRKM9; SAPK; SAPK1a
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212814).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG // NNN ACG CGT



ACCN: ORF Size: NM_002752 1272 bp



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OriGene Technologies, Inc.

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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 infoOTI 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:1. Centrifuge at 5,000xg for Smin. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close 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 002752.3RefSeq ORF:1275 bpLocus ID:5601UniProt ID:P45984Cytogenetics:5q35.3Domains:pkinase, TyrKc, S_TKcProtein Families:Druggable Genome, ES Cell Differentiation/IPS, Protein KinaseProtein Pathways:Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fe epsilon Risgnaling pathway, Neurotrophin signaling pathway, Nou-like receptor signaling pathway, Neurotrophin signaling pathway, Nou-like receptor signaling pathway, Neurotrophin signaling pathway, Nou-like receptor signaling pathway, Isu	Sevential Sevential Content of the sevential s	
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: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 002752.3RefSeq ORF:1942 bpLocus ID:5001UniProt ID:P45984Cytogenetics:5q35.3Domains:puggable Genome, ES Cell Differentiation/IPS, Protein KinaseProtein Families:Druggable Genome, ES Cell Differentiation/IPS, Protein KinaseProtein Pathways:Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, NAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Type II diabetes mellitus Wnt signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus Wnt signaling pathway	OTI Disclaimer:	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
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Locus ID:5601UniProt ID:P45984Cytogenetics:5q35.3Domains:pkinase, TyrKc, S_TKcProtein Families:Druggable Genome, ES Cell Differentiation/IPS, Protein KinaseProtein 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, Pancreatic cancer, Pathways in signaling pathway, NOD-like receptor signaling pathway, Type II diabetes mellitus	RefSeq Size:	1942 bp
UniProt ID:P45984Cytogenetics:5q35.3Domains:pkinase, TyrKc, S_TKcProtein Families:Druggable Genome, ES Cell Differentiation/IPS, Protein KinaseProtein Pathways:Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Neurotrophin 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-l-like receptor signaling pathway, Type II diabetes mellitus Wnt signaling pathway	RefSeq ORF:	1275 bp
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Domains:pkinase, TyrKc, S_TKcProtein Families:Druggable Genome, ES Cell Differentiation/IPS, Protein KinaseProtein 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	UniProt ID:	<u>P45984</u>
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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	Domains:	pkinase, TyrKc, S_TKc
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MW: 48 kDa	Protein Pathways:	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,
	MW:	48 kDa

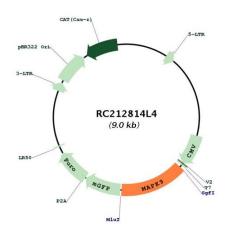
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Sourigene JNK2 (MAPK9) (NM_002752) Human Tagged Lenti ORF Clone – RC212814L4

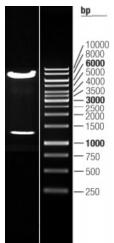
Gene Summary:

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 immediateearly 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 Nterminal 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 RC212814L4



Double digestion of RC212814L4 using Sgfl and Mlul

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