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Product datasheet for TR320484

JNK1 (MAPK8) Human shRNA Plasmid Kit (Locus ID 5599)

Product data:

Product Type:	shRNA Plasmids
Product Name:	JNK1 (MAPK8) Human shRNA Plasmid Kit (Locus ID 5599)
Locus ID:	5599
Synonyms:	JNK; JNK-46; JNK1; JNK1A2; JNK21B1/2; PRKM8; SAPK1; SAPK1c
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	MAPK8 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5599). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001278547, NM_001278548, NM_001323302, NM_001323320, NM_001323321, NM_001323322, NM_001323323, NM_001323324, NM_001323325, NM_001323326, NM_001323327, NM_001323328, NM_001323329, NM_001323330, NM_001323331, NM_002750, NM_139046, NM_139047, NM_139049, NR_136583, NR_136584, NR_136585, NM_002750.1, NM_002750.2, NM_002750.3, NM_139046.1, NM_139046.2, NM_139046.3, NM_139049.1, NM_139049.2, NM_139049.3, NM_001278548.1, NM_001278547.1, NM_139047.1, BC130570, BC130572, BC144063, NM_139046.4, NM_139049.4
UniProt ID:	P45983

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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 is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Apr 2016]

shRNA Design:

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).