

Product datasheet for TF320487

OriGene Technologies, Inc.

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JNK3 (MAPK10) Human shRNA Plasmid Kit (Locus ID 5602)

Product data:

Product Type: shRNA Plasmids

Product Name: JNK3 (MAPK10) Human shRNA Plasmid Kit (Locus ID 5602)

Locus ID:

JNK3; JNK3A; p54bSAPK; p493F12; PRKM10; SAPK1b Synonyms:

pRFP-C-RS (TR30014) Vector:

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format:

Retroviral plasmids

MAPK10 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 5602). Components:

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.

NM 001318067, NM 001318068, NM 001318069, NM 002753, NM 138980, NM 138981, RefSeq:

> NM 138982, NM 001351624, NM 001351625, NM 002753.1, NM 002753.2, NM 002753.3, NM 002753.4, NM 138980.1, NM 138980.2, NM 138980.3, NM 138982.1, NM 138982.2, NM 138982.3, NM 138981.1, NM 138981.2, BC035057, BC035057.1, BC065516, BC065516.1,

BC022492, BC051731, NM 001363657, NM 138982.4, NM 002753.5, NM 138980.4

UniProt ID: P53779

Summary: The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as

integration points for multiple biochemical signals, and thus are involved in a wide variety of

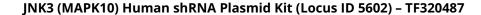
cellular processes, such as proliferation, differentiation, transcription regulation and development. This kinase is specifically expressed in a subset of neurons in the nervous system, and is activated by threonine and tyrosine phosphorylation. Targeted deletion of this

gene in mice suggests that it may have a role in stress-induced neuronal apoptosis.

Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-

frame translation termination codon. [provided by RefSeq, Dec 2017]







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).