

## Product datasheet for **KN207608RB**

### JNK2 (MAPK9) Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	JNK2
Locus ID:	5601
Components:	<b>KN207608G1</b> , JNK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN207608G2</b> , JNK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN207608RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	<a href="#">NM_001135044</a> , <a href="#">NM_001308244</a> , <a href="#">NM_002752</a> , <a href="#">NM_139068</a> , <a href="#">NM_139069</a> , <a href="#">NM_139070</a> , <a href="#">NM_001364610</a> , <a href="#">NM_001364607</a> , <a href="#">NM_001364608</a> , <a href="#">NM_001364609</a> , <a href="#">NM_001364612</a> , <a href="#">NM_001364613</a> , <a href="#">NM_001364611</a>
UniProt ID:	<a href="#">P45984</a>
Synonyms:	JNK-55; JNK2; JNK2A; JNK2ALPHA; JNK2B; JNK2BETA; p54a; p54aSAPK; PRKM9; SAPK; SAPK1a



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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 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:**
