

Product datasheet for KN207608

JNK2 (MAPK9) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR) Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control Donor DNA: **GFP-puro** JNK2 Symbol: Locus ID: 5601 KN207608G1, INK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **Components:** KN207608G2, INK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN207608D, donor DNA containing left and right homologous arms and GFP-puro functional cassette. GE100003, scramble sequence in pCas-Guide vector NM 001135044, NM 001308244, NM 002752, NM 139068, NM 139069, NM 139070, RefSeq: NM 001364610, NM 001364607, NM 001364608, NM 001364609, NM 001364612, NM 001364613, NM 001364611 **UniProt ID:** P45984 JNK-55; JNK2; JNK2A; JNK2ALPHA; JNK2B; JNK2BETA; p54a; p54aSAPK; PRKM9; SAPK; SAPK1a Synonyms: 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 ubiguitination 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]



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Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter

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