

Product datasheet for **KN204454LP**

TAK1 (MAP3K7) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	TAK1
Locus ID:	6885
Components:	KN204454G1 , TAK1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN204454G2 , TAK1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN204454LPD , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. GE100003 , scramble sequence in pCas-Guide vector
RefSeq:	NM_003188 , NM_145331 , NM_145332 , NM_145333
UniProt ID:	O43318
Synonyms:	MEKK7; TAK1; TGF1a
Summary:	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]



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Product images:

