

## Product datasheet for **KN204196RB**

### **ERK1 (MAPK3) Human Gene Knockout Kit (CRISPR)**

#### **Product data:**

<b>Product Type:</b>	Knockout Kits (CRISPR)
<b>Format:</b>	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
<b>Donor DNA:</b>	RFP-BSD
<b>Symbol:</b>	ERK1
<b>Locus ID:</b>	5595
<b>Components:</b>	<b>KN204196G1</b> , ERK1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN204196G2</b> , ERK1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN204196RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
<b>Disclaimer:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_001040056</a> , <a href="#">NM_001109891</a> , <a href="#">NM_002746</a>
<b>UniProt ID:</b>	<a href="#">P27361</a>
<b>Synonyms:</b>	ERK-1; ERK1; ERT2; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK; P44ERK1; P44MAPK; PRKM3
<b>Summary:</b>	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008]



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## Product images:

