

## Product datasheet for **KN203171BN**

### MEK5 (MAP2K5) Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	MEK5
Locus ID:	5607
Components:	<b>KN203171G1</b> , MEK5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN203171G2</b> , MEK5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN203171BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo 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_001206804</a> , <a href="#">NM_002757</a> , <a href="#">NM_145160</a> , <a href="#">NM_145161</a> , <a href="#">NM_145162</a>
UniProt ID:	<a href="#">Q13163</a>
Synonyms:	HsT17454; MAPKK5; MEK5; PRKMK5
Summary:	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been described. [provided by RefSeq, May 2011]



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## Product images:

