

Product datasheet for **KN314163BN**

Pten Mouse 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:	Pten
Locus ID:	19211
Components:	KN314163G1 , Pten gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN314163G2 , Pten gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN314163BND , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. GE100003 , 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:	NM_008960
UniProt ID:	O08586
Synonyms:	2310035O07Rik; A130070J02Rik; A1463227; B430203M17Rik; MMAC1; TEP1
Summary:	This gene encodes a phosphatase with dual activity against phospholipids and proteins, and acts as a tumor-suppressor. The protein contains four structural domains, a PIP2-binding domain, a catalytic tensin-type phosphatase domain, a C2 tensin-type domain and a PDZ-binding domain. The protein belongs to the protein tyrosine phosphatase family. Deletion of this gene in mice contribute to tumorigenesis in multiple tissues. [provided by RefSeq, Sep 2015]



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Product images:

