

## Product datasheet for **KN304060RB**

### Cxyc5 Mouse Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	Cxyc5
Locus ID:	67393
Components:	<b>KN304060G1</b> , Cxyc5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN304060G2</b> , Cxyc5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN304060RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD 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_133687</a> , <a href="#">NM_001357458</a> , <a href="#">NM_001357459</a>
UniProt ID:	<a href="#">Q91WA4</a>
Synonyms:	4930415K17Rik
Summary:	May indirectly participate in activation of the NF-kappa-B and MAPK pathways. Acts as a mediator of BMP4-mediated modulation of canonical Wnt signaling activity in neural stem cells. Required for DNA damage-induced ATM phosphorylation, p53 activation and cell cycle arrest. Involved in myelopoiesis (By similarity). Binds to the oxygen responsive element of COX4I2 and represses its transcription under hypoxia conditions (4% oxygen), as well as normoxia conditions (20% oxygen). May repress COX4I2 transactivation induced by CHCHD2 and RBPJ (By similarity).[UniProtKB/Swiss-Prot Function]



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## Product images:

