

Product datasheet for **KN304060**

Cxyc5 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Cxyc5
Locus ID:	67393
Components:	<p>KN304060G1, Cxyc5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTACTGCCACCGGCGTCCT</p> <p>KN304060G2, Cxyc5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCACTGCCACTGCTGCTAT</p> <p>KN304060D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG ATC

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_133687](#), [NM_001357458](#), [NM_001357459](#)

UniProt ID:

[Q91WA4](#)

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]

Product images:

