

Product datasheet for **KN303046**

Cdk5rap2 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:	Cdk5rap2
Locus ID:	214444
Components:	KN303046G1 , Cdk5rap2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACTCGGGGATGGAAGAGGA KN303046G2 , Cdk5rap2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCCTGCCTGGGACCCTCAG KN303046D , donor DNA containing left and right homologous arms and GFP-puro 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_001313762 , NM_145990
UniProt ID:	Q8K389
Synonyms:	2900018K03Rik; an; mKIAA1633
Summary:	Potential regulator of CDK5 activity via its interaction with CDK5R1. Negative regulator of centriole disengagement (licensing) which maintains centriole engagement and cohesion (PubMed:20627074). Involved in regulation of mitotic spindle orientation (PubMed:20460369). Plays a role in the spindle checkpoint activation by acting as a transcriptional regulator of both BUBR1 and MAD2 promoter. Required for the recruitment of AKAP9 to centrosomes (By similarity). Plays a role in neurogenesis (PubMed:20471352). Contrary to higher mammalian orthologs, including human, chimpanzee, bovine and dog, does not interact with EB1/MAPRE1, therefore its function in the regulation of microtubule dynamics is unclear (PubMed:19553473).[UniProtKB/Swiss-Prot Function]



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Product images:

