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Product datasheet for KN209974RB

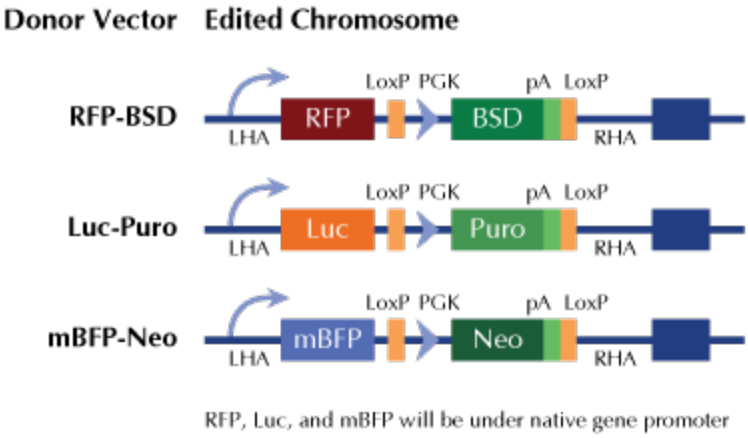
AK2 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	AK2
Locus ID:	204
Components:	**KN209974G1**, AK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN209974G2**, AK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN209974RBD**, donor DNA containing left and right homologous arms and RFP-BSD 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_001199199, NM_001319139, NM_001319140, NM_001319141, NM_001319142, NM_001319143, NM_001625, NM_013411, NM_172199, NR_037591, NR_037592, NR_134976
UniProt ID:	P54819
Synonyms:	ADK2; AK 2
Summary:	Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Mutations in this gene are the cause of reticular dysgenesis. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1 and 2.[provided by RefSeq, Nov 2010]

View online »

Product images:



RFP, Luc, and mBFP will be under native gene promoter