

## 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:	<b>KN209974G1</b> , AK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN209974G2</b> , AK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN209974RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
RefSeq:	<a href="#">NM_001199199</a> , <a href="#">NM_001319139</a> , <a href="#">NM_001319140</a> , <a href="#">NM_001319141</a> , <a href="#">NM_001319142</a> , <a href="#">NM_001319143</a> , <a href="#">NM_001625</a> , <a href="#">NM_013411</a> , <a href="#">NM_172199</a> , <a href="#">NR_037591</a> , <a href="#">NR_037592</a> , <a href="#">NR_134976</a>
UniProt ID:	<a href="#">P54819</a>
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:

