

## Product datasheet for **KN213831RB**

### PAK1 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:	PAK1
Locus ID:	5058
Components:	<p><b>KN213831G1</b>, PAK1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN213831G2</b>, PAK1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN213831RBD</b>, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>
Disclaimer:	<p>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.</p>
RefSeq:	<a href="#">NM_001128620</a> , <a href="#">NM_002576</a>
UniProt ID:	<a href="#">Q13153</a>
Synonyms:	PAKalpha
Summary:	<p>This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Mutations in this gene have been associated with macrocephaly, seizures, and speech delay. Overexpression of this gene is also reported in many cancer types, and particularly in breast cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2020]</p>



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## Product images:

