

Product datasheet for **KN203808BN**

PYK2 (PTK2B) Human Gene Knockout Kit (CRISPR)

Product data:

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| Product Type: | Knockout Kits (CRISPR) |
| Format: | 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control |
| Donor DNA: | mBFP-Neo |
| Symbol: | PYK2 |
| Locus ID: | 2185 |
| Components: | KN203808G1 , PYK2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN203808G2 , PYK2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN203808BND , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. GE100003 , scramble sequence in pCas-Guide vector |
| RefSeq: | NM_004103 , NM_173174 , NM_173175 , NM_173176 |
| UniProt ID: | Q14289 |
| Synonyms: | CADTK; CAKB; FADK2; FAK2; PKB; PTK; PYK2; RAFTK |
| Summary: | This gene encodes a cytoplasmic protein tyrosine kinase which is involved in calcium-induced regulation of ion channels and activation of the map kinase signaling pathway. The encoded protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity. The encoded protein undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, membrane depolarization, or protein kinase C activation. This protein has been shown to bind CRK-associated substrate, nephrocystin, GTPase regulator associated with FAK, and the SH2 domain of GRB2. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Four transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |



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Product images:

