

## Product datasheet for SC210723

### PYK2 (PTK2B) (NM\_173174) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** PYK2 (PTK2B) (NM\_173174) Human 3' UTR Clone  
**Symbol:** PYK2  
**Synonyms:** CADTK; CAKB; FADK2; FAK2; PKB; PTK; PYK2; RAFTK  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pMirTarget (PS100062)  
**ACCN:** NM\_173174  
**Insert Size:** 907 bp  
**Insert Sequence:** >SC210723 3'UTR clone of NM\_173174  
 The sequence shown below is from the reference sequence of NM\_173174. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCCAATCTGGCCACCCACCTGCAGAGTGACGGAGGGTGGGGGCCACCTGCCTGCGTCTTCCGCCCTG
CCTGCCATGTACCTCCCCTGCCTTGCTGTTGGTCATGTGGGTCTCCAGGGGAAGGCCAAGGGGAGTC
ACCTTCCCTTGCCACTTGCACGACGCCCTCTCCCACCCCTACCCCTGGCTGTACTGCTCAGGCTGCA
GCTGGACAGAGGGGACTCTGGGCTATGGACACAGGGTGACGGTGACAAAGATGGCTCAGAGGGGACTG
CTGCTGCCTGGCCACTGCTCCCTAAGCCAGCCTGGTCCATGCAGGGGGCTCCTGGGGTGGGGAGGTGT
CACATGGTGCCCTTAGCTTTATATATGGACATGGCAGGCCGATTTGGGAACCAAGCTATTCTTTCCCT
TCCTCTTCGGCCCTCAGATGTCCCTTGATGCACAGAGAAGCTGGGGAGGAGCTTTGTTTTGGGGTCCAG
GCAGCCAGTGAGATGAGGGATGGCCTGGCATTCTTGTACAGTGTATATTGAAATTTATTTAATGTGAG
TTTGGTCTGGACTGACAGCATGTGCCCTCTGAGGGAGGACCTGGGGCACAGTCCAGGAACAAGCTAAT
TGGGAGTCCAGGCACAGGATGCTGTGTTGTCAACAAACCAAGCATCAGGGGAAGAAGCAGAGAGATGC
GGCCAAGATAGGACCTTGGGCCAAATCCGCTCTCTTCTGCCCTCTTTCTTTCTTTCTTTCTTTACTTTC
CCTTGCTTTTCCCTCTTTTCTTACTCCTCCTTCTCTCCCCAACCCCACTTCTCATCTGCACCCTTC
TTTTCTCATGTGTTGCATAAACATTCTTTAACTTCTTTCTATTGACTTGTGGTTGAATTAATAATTG
TCCCATTTGC
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<a href="#">NM_173174.3</a>
<b>Summary:</b>	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]
<b>Locus ID:</b>	2185
<b>MW:</b>	33