

Product datasheet for **RC234710**

PAK6 (NM_001276717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAK6 (NM_001276717) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAK6
Synonyms:	PAK5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234710 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCCGCAAGAAAAAGAAGAAACGCCCTGAGATCTCAGCGCCACAGAAGCTCCAGCACCGTGTCCACA
CCTCCTTCGACCCCAAAGAAGGCAAGTTTGTGGGCCTCCCCACAATGGCAGAACATCCTGGACACT
GCGGCGCCCAAGCCCGTGGTGGACCTTCGCGAATCACACGGGTGCAGCTCCAGCCCATGAAGACAGTG
GTGCGGGGACGCGATGCCTGTGGATGGCTACATCTCGGGGCTGCTCAACGACATCCAGAAGTTGTGAG
TCATCAGCTCCAACACCTGCGTGGCCGACGCCACCAGCCGGCGGGGCACAGTCCCTGGGGCTGCT
GGGGGATGAGACTGGGCCACCGACCCAGACATGTACCTCCAGAGCCCCAGTCTGAGCGCACTGACCCC
CACGGCTCTACCTCAGTGAACGGGGCACACCAGCAGGCCACAAGCAGATGCCGTGGCCGAGCCAC
AGAGCCACGGGTCTGCCAATGGGCTGGCTGCAAAGGCACAGTCCCTGGGCCCGCCGAGTTTCAGGG
TGCTCGCAGCGTGTCTGCAGTGGGTGCTGCCTGCAGAGCTCCCACCAGGAGCTCGCCCCCAGC
GGCACC AATAGGCATGGAATGAAGGCTGCAAGCATGGCTCTGAGGAGGCCCGGCCACAGTCTGCCTGG
TGGGCTCAGCCACAGGCAGGCCAGGTGGGGAAGGCAGCCCTAGCCCTAAGACCCGGGAGAGCAGCCTGAA
GCGCAGGCTATTCCGAAGCATGTTCTGTCCACTGCTGCCACAGCCCCTCCAAGCAGCAGCAAGCCAGGC
CCTCCACCACAGAGCAAGCCCAACTCCTCTTCCGACCGCCGAGAAAGACAACCCCAAGCCTGGTGG
CCAAGGCCAGTCTTGGCCTCGGACAGCCGGTGGGGACCTTCAGCCCTCTGACCACTTCGGATACCAG
CAGCCCCCAGAAGTCCCTCCGCACAGCCCCGGCCACAGGCCAGCTTCCAGGCCGTTCCCCAGCGGGA
TCCCCCGCACCTGGCAGGCCAGATCAGCACCAGCAACCTGTACCTGCCCAGGACCCACGGTTGCCA
AGGGTCCCTGGTGGTGGGACACAGGTGTTGTGACACATGAGCAGTTCAAGGCTGCGTCAGGATGGT
GGTGGACCAGGGTGACCCCGGCTGCTGCTGGACAGCTACGTGAAGATTGGCGAGGGCTCCACCGGCATC
GCTGCTTGGCCCGGAGAAGCACTCGGGCCGCCAGGTGGCCGTCAAGATGATGGACCTCAGGAAGCAGC
AGCGCAGGGAGCTGCTCTCAACGAGGTGGTATCATGCGGGACTACCAGCACTTCAACGTGGTGGAGAT
GTACAAGAGCTACCTGGTGGCGAGGAGCTGTGGGTGCTCATGGAGTTCTGCAGGGAGGAGCCCTCACA
GACATCGTCTCCAAGTCAGGCTGAATGAGGAGCAGATTGCCACTGTGTGTGAGGCTGTGCTGCAGGCC
TGGCCTACCTGCATGCTCAGGTGTCATCCACCGGACATCAAGAGTGACTCCATCCTGCTGACCCTCGA
TGGCAGGGTGAAGCTCTCGGACTTCGGATTCTGTGCTCAGATCAGCAAAGACGTCCCTAAGAGGAAGTCC
CTGGTGGGAACCCCTACTGGATGGCTCCTGAAGTGATCTCCAGGTCTTTGTATGCCACTGAGGTGGATA
TCTGGTCTCTGGGCATCATGGTATTGAGATGGTATGAGGGAGCCACCGTACTTCAAGTACTCCCCAGT
GCAAGCCATGAAGAGGCTCCGGGACAGCCCCCACC AAGCTGAAAACTCTCACAAGGTCTCCCCAGTG
CTGCGAGACTTCTGGAGCGGATGCTGGTGCAGGACCCCAAGAGAGAGCCACAGCCAGGAGCTCCTAG
ACCACCCCTTCTGTGCAGACAGGGCTACCTGAGTGCCTGGTGGCCCTGATCCAGCTCTACCGAAAGCA
GACCTCCACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234710 protein sequence
Red=Cloning site Green=Tags(s)

MFRKKKKRPEISAPQNFQHRVHTSFDPKEGKFVGLPPQWQNI~~LDL~~RRPKPVVDP~~SRITR~~VQLQPMKTV
VRSAMPVDGYISGLLNDIQKLSVISSNTLRGRSPT~~SRRAQ~~SLGLLGDEHWATDPD~~MYLQ~~SPQSERTDP
HGLYLSCNGGTPAGHKQMPWPEPQSPRVL~~PNGLA~~AKA~~QSLG~~PAEFQ~~GASQR~~CLQLGACLQSSPPGASPT
GTNRHGMKAAKHGSEEARPQ~~SCLVGS~~ATGRPGGEGSP~~PKTRESS~~LKRRLFRSMFLSTAATAPPSSSKPG
PPPQSKPNSSFRPPQKDNPPSLVAKA~~QSLP~~SDQPVGTF~~SPLT~~SDTSSPQKSLRTAPATGQLPGRSSPAG
SPRTWHAQISTSNLYLPQDPTVAKGALAGEDTGVVTHEQFKAALRMVVDQ~~GPRL~~LLDSYV~~KIGEG~~STGI
VCLAREKHSGRQVAVK~~MDLRKQ~~RRELLFNEV~~IMRDY~~QHFNVVEMYKSYLVGEELWVLM~~EFLQ~~GGALT
DIVSQVRLNEEQIATVCEAVLQALAYLHAQ~~GV~~IHRDIKSDSILLTLDGRV~~KLSD~~FGCAQISKDVPKRS
LVGTPY~~WMAPEV~~ISRSLYATEVDIWSL~~GIMV~~EMVDGEP~~PFSD~~SPVQAMKRLRDSPPPKL~~KN~~SHK~~VSP~~
LRDFLERMLVRDPQERATAQELLDHPFLLQTGLPECLVPLIQLYR~~KQT~~STC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001276717

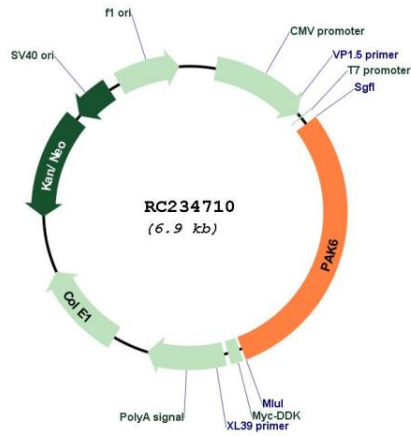
ORF Size: 2043 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001276717.1</u> , <u>NP_001263646.1</u>
RefSeq Size:	2558 bp
RefSeq ORF:	2046 bp
Locus ID:	56924
UniProt ID:	<u>Q9NQUS</u>
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway
MW:	74.9 kDa
Gene Summary:	This gene encodes a member of a family of p21-stimulated serine/threonine protein kinases, which contain an amino-terminal Cdc42/Rac interactive binding (CRIB) domain and a carboxyl-terminal kinase domain. These kinases function in a number of cellular processes, including cytoskeleton rearrangement, apoptosis, and the mitogen-activated protein (MAP) kinase signaling pathway. The protein encoded by this gene interacts with androgen receptor (AR) and translocates to the nucleus, where it is involved in transcriptional regulation. Changes in expression of this gene have been linked to prostate cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC234710