OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC234627

PAK6 (NM_001276718) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAK6 (NM_001276718) 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)

ORF Nucleotide Sequence:

>RC234627 representing NM_001276718
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCGCAAGAAAAAGAAGAAACGCCCTGAGATCTCAGCGCCACAGAACTTCCAGCACCGTGTCCACA
CCTCCTTCGACCCCAAAGAAGGCAAGTTTGTGGGCCTCCCCCCACAATGGCAGAACATCCTGGACACACT
GCGGCGCCCCAAGCCCGTGGTGGACCCTTCGCGAATCACACGGGTGCAGCTCCAGCCCATGAAGACAGTG
GTGCGGGGCAGCGCGATGCCTGTGGATGGCTACATCTCGGGGCTGCTCAACGACATCCAGAAGTTGTCAG
TCATCAGCTCCAACACCCTGCGTGGCCGCAGCCCCACCAGCCGGCGGCGGGCACAGTCCCTGGGGCTGCT
GGGGGATGAGCACTGGGCCACCGACCCAGACATGTACCTCCAGAGCCCCCAGTCTGAGCGCACTGACCCC
CACGGCCTCTACCTCAGCTGCAACGGGGGCACACCAGCAGGCCACAAGCAGATGCCGTGGCCCGAGCCAC
AGAGCCCACGGGTCCTGCCCAATGGGCTGGCTGCAAAGGCACAGTCCCTGGGCCCCGCCGAGTTTCAGGG
TGCCTCGCAGCGCTGTCTGCAGCTGGGTGCCTGCCTGCAGAGCTCCCCACCAGGAGCCTCGCCCCCCACG
GGCACCAATAGGCATGGAATGAAGGCTGCCAAGCATGGCTCTGAGGAGGCCCGGCCACAGTCCTGCCTGG
TGGGCTCAGCCACAGGCAGGCCAGGTGGGGAAGGCAGCCCTAGCCCTAAGACCCGGGAGAGCAGCCTGAA
GCGCAGGCTATTCCGAAGCATGTTCCTGTCCACTGCTGCCACAGCCCCTCCAAGCAGCAGCAAGCCAGGC
CCTCCACCACAGAGCAAGCCCAACTCCTCTTTCCGACCGCCGCAGAAAGACAACCCCCCAAGCCTGGTGG
CCAAGGCCCAGTCCTTGCCCTCGGACCAGCCGGTGGGGACCTTCAGCCCTCTGACCACTTCGGATACCAG
CAGCCCCCAGAAGTCCCTCCGCACAGCCCCGGCCACAGGCCAGCTTCCAGGCCGGTCTTCCCCAGCGGGA
TCCCCCCGCACCTGGCACGCCCAGATCAGCACCAGCAACCTGTACCTGCCCCAGGACCCCACGGTTGCCA
AGGGTGCCCTGGCTGGTGAGGACACAGGTGTTGTGACACATGAGCAGTTCAAGGCTGCGCTCAGGATGGT
GGTGGACCAGGGTGACCCCCGGCTGCTGCTGGACAGCTACGTGAAGATTGGCGAGGGCTCCACCGGCATC
GTCTGCTTGGCCCGGGAGAAGCACTCGGGCCGCCAGGTGGCCGTCAAGATGATGGACCTCAGGAAGCAGC
AGCGCAGGGAGCTGCTCTTCAACGAGGTGGTGATCATGCGGGACTACCAGCACTTCAACGTGGTGGAGAT
GTACAAGAGCTACCTGGTGGGCGAGGAGCTGTGGGTGCTCATGGAGTTCCTGCAGGGAGGAGCCCTCACA
GACATCGTCTCCCAAGTCAGGCTGAATGAGGAGCAGATTGCCACTGTGTGTGAGGCTGTGCTGCAGGCCC
TGGCCTACCTGCATGCTCAGGGTGTCATCCACCGGGACATCAAGAGTGACTCCATCCTGCTGACCCTCGA
TGGCAGGGTGAAGCTCTCGGACTTCGGATTCTGTGCTCAGATCAGCAAAGACGTCCCTAAGAGGAAGTCC
CTGGTGGGAACCCCCTACTGGATGGCTCCTGAAGTGATCTCCAGGTCTTTGTATGCCACTGAGGTCTCCC
CAGTGCTGCGAGACTTCCTGGAGCGGATGCTGGTGCGGGACCCCCAAGAGAGAGCCACAGCCCAGGAGCT
CCTAGACCACCCCTTCCTGCTGCAGACAGGGCTACCTGAGTGCCTGGTGCCCCTGATCCAGCTCTACCGA
AAGCAGACCTCCACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

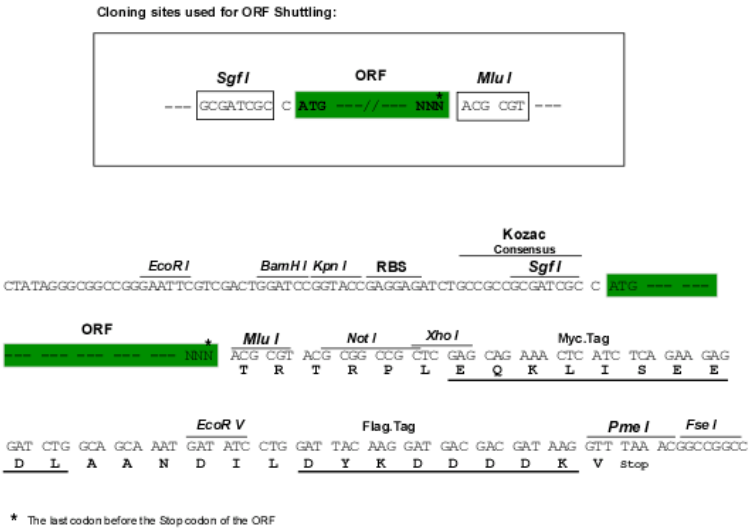
>RC234627 representing NM_001276718
Red=Cloning site Green=Tags(s)

MFRKKKKKRPEISAPQNFQHRVHTSFDPKEGKFVGLPPQWQNILDTLRRPKPVVDPSRITRVQLQPMKTV
VRGSAMPVDGYISGLLNDIQKLSVISSNTLRGRSPTSRRRAQSLGLLGDEHWATDPDMYLQSPQSERTDP
HGLYLSCNGGTPAGHKQMPWPEPQSPRVLPNGLAAKAQSLGPAEFQGASQRCLQLGACLQSSPPGASPPT
GTNRHGMKAAKHGSEEARPQSCLVGSATGRPGGEGSPSPKTRESSLKRRLFRSMFLSTAATAPPSSSKPG
PPPQSKPNSSFRPPQKDNPPSLVAKAQSLPSDQPVGTFSPLTTSDTSSPQKSLRTAPATGQLPGRSSPAG
SPRTWHAQISTSNLYLPQDPTVAKGALAGEDTGVVTHEQFKAALRMVVDQGDPRLLLDSYVKIGEGSTGI
VCLAREKHSGRQVAVKMMDLRKQQRRELLFNEVVIMRDYQHFNVVEMYKSYLVGEELWVLMEFLQGGALT
DIVSQVRLNEEQIATVCEAVLQALAYLHAQGVIHRDIKSDSILLTLDGRVKLSDFGFCAQISKDVPKRKS
LVGTPYWMAPEVISRSLYATEVSPVLRDFLERMLVRDPQERATAQELLDHPFLLQTGLPECLVPLIQLYR
KQTSTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001276718

ORF Size: 1908 bp

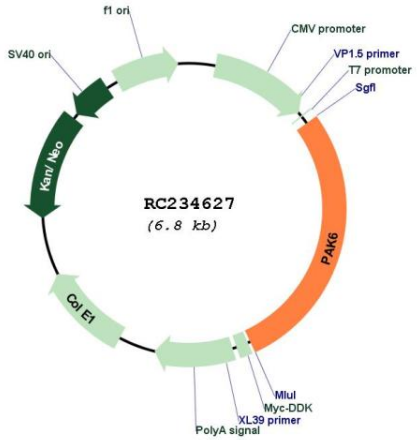
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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:	NM_001276718.2
RefSeq Size:	4228 bp
RefSeq ORF:	1911 bp
Locus ID:	56924
UniProt ID:	Q9NQU5
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:	70.2 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 RC234627