

Product datasheet for **SC113203**

PAK6 (NM_020168) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAK6 (NM_020168) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAK6
Synonyms:	PAK5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113203 sequence for NM_020168 edited (data generated by NextGen Sequencing)

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ATGTTCCGCAAGAAAAGAAGAAACGCCCTGAGATCTCAGCGCCACAGAACTTCCAGCAC
CGTGTCCACACCTCCTTCGACCCCAAAGAAGGCAAGTTTGTGGGCTCCCCCACAATGG
CAGAACATCCTGGACACACTGCGGGCCCAAGCCCGTGGTGGACCCTTCGCGAATCACA
CGGGTGCAGCTCCAGCCCATGAAGACAGTGGTGCGGGGCAGCGGATGCCTGTGGATGGC
TACATCTCAGGGCTGCTCAACGACATCCAGAAGTTGTCAGTCATCAGCTCCAACACCTG
CGTGGCCGAGCCACCAGCCGGCGGGCACAGTCCCTGGGCTGCTGGGGATGAG
CACTGGGCCACCGACCCAGACATGTACCTCCAGAGCCCCAGTCTGAGCGCACTGACCCC
CACGGCTCTACCTCAGCTGCAACGGGGCACACCAGCAGGCCACAAGCAGATGCCGTGG
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AGCTCCCCACCAGGAGCCTCGCCCCCACGGGCACCAATAGGCATGGAATGAAGGCTGCC
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CCAGGTGGGAAGGCAGCCCTAGCCCTAAGACCCGGGAGAGCAGCCTGAAGCGCAGGCTA
TTCCGAAGCATGTTCTGTCCACTGCTGCCACAGCCCCTCAAGCAGCAGCAAGCCAGGC
CCTCCACCACAGAGCAAGCCCAACTCCTCTTCCGACCGCCGAGAAAGCAACCCCCCA
AGCCTGGTGGCAAGGCCAGTCTTGCCTCGGACCAGCCGGTGGGACCTTCAGCCCT
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CTGGTGGAAACCCCTACTGGATGGCTCCTGAAGTGATCTCCAGGTCTTTGTATGCCACT
GAGGTGGATATCTGGTCTCTGGGCATCATGGTGATTGAGATGGTATGGGGAGCCACCG
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CTGAAAACTCTCACAAGGTCTCCCCAGTGTGCGAGACTTCTGGAGCGGATGCTGGTG
CGGGACCCCCAAGAGAGAGCCACAGCCAGGAGCTCCTAGACCACCCCTTCTGTGTCAG
ACAGGGCTACCTGAGTGCCTGGTGCCCTGATCCAGCTTACCGAAAGCAGACCTCCACC
TGCTGA
    
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Clone variation with respect to NM_020168.4
 249 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020168 unedited
CACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCATCTGATTATTT
TGGGAGCTGGAACTTGGAGCTGCACCTGAGTCCC GCCCTTCTAGCTCTCCCCTCCCTA
CCTTGGGCTCCAGGAAGATGGGACTTGCTGTGAGTCTGCTGCCACCCCTAAAGATATGG
AAGACGCTGTGGGGCCAGAAGTGCCCGGGGGCTGTGGCAGCAGGCAGAGTGAATAGC
AGATATGGTGGTCAGGCTGCCCGTGTGTCTCTGGAGGTGTTGGACAGAAGGGCAGT
CTTGTCCGAGCTGACTGGAGTCTCCCGGCTGGCTCTGAACATCTCCCACGGGGATG
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CAGCAAGTCCCAGGTCTTCCCTCTCCTCAGCGCCTAAGAGAGAGGCCAGTGC GGGTGA
GGAGTCGCGAGGAAGAGGCGGAAGGCGCCGGAAGGCACCATGTTCCGCAAGAAAAAGAAG
AAACGCCCTGAGATCTCAGCGCCACAGA ACTTCCAGCACCGTGTCCACACCTCTTCGAC
CCCAAAGAAGGCAAGTTTGTGGCCTCCCCCACAAATGGCAGAACATCCTGGACACTG
CGCGCCCAAGCCGTGGTGGACCCTTCGCGATCACACGGGTGCAGCTCCAGCCATGAA
GACAGTGGTTCGNGCANCGGATGCCTGTGGATGGCTACATCTCAGGGTGTCTCACGAC
TNCCAGAAGTGTAGTCATCAGCTCACACCCTGCGTGGCCGACG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020168 unedited
NTTTTTGACTCTGCCCCGGCGCCGATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTT
TGGCTTTGAACACTCAATTTAATTTAAACAGGCACAAGTGCAAACAATTCACAAAAATT
TCTAGGGAAGATGCTTTTGTGTTTAAAACTCTGACCCTTAAAAAAGTCTTGCATTT
CTTTGCCCCAGGTAGGTCACTAGGAGCAGAAGAATCTAAAAATATTATCTAGATAGAA
AGGGTCCAGACACCTGAAGTTCTTCTGGAATCCATCTCACAGCAGCCCTGAAGTGGG
GCAGGGCCGAGGAGGACAAGGAGACAGCAGTCTGTGGAGGCAGCTGGGGCAGATGGTTTG
CACACATGGATGCCTGTGACCTTGACATGATGGAACCCGGAGGTGGTTCGCCTTCTCTC
CCAGATAGGGTCTGAAGAGAACAATGGGTCCCTGATGACCTGGCTATTGAGATAAACTT
GACAGGTAACACAGCCCAATCCTTACATTCTGTCTCTGGCCCTCACGATGCACAGTA
CAGGAGAAGCTCAAAACCCTCCTGAGCCTCCAGGAGTGTAGACTTACCATGGACCACTC
CACTGGCCACGTACACACCGGAGTGGCAGAGGGCAACCCGCTCAACAAAGCCGGTTC
CTTTATGCCAATACTTATTGGCCAAAACGGGCCCTTCTCTCCGAAACCGTTGCGGGCGA
CCCTGCAGAGACCCGGTGTGTTTGGGGGTTTTCTTCCCTTACAGCTTTTACTACCC
CCCCACCCCTTACCTTGTCTCTTTTCGCAACCGCCACCCCTTTTCCCCCTCC
CTCTCCTTCCCCCTCTCCCAAATGCGCCCCCTCCCTCCCTCCCTCCCTCCCTCTCTGT
CTTCTCCCCCCCCACCCCGCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_020168

Insert Size:

4470 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_020168.3</u> , <u>NP_064553.1</u>
RefSeq Size:	3889 bp
RefSeq ORF:	2046 bp
Locus ID:	56924
UniProt ID:	<u>Q9NQU5</u>
Cytogenetics:	15q15.1
Domains:	PBD, pkinase, TyrKc, S_TKc
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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform 1. Variants 1 and 4 encode the same isoform (1).</p>