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Product datasheet for SC333264

PAK6 (NM_001276718) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: PAK6 (NM_001276718) Human Untagged Clone

Tag: Tag Free

Symbol: PAK6

Synonyms: PAK5

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC333264 representing NM_001276718.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTTCCGCAAGAAAAAGAAGAAACGCCCTGAGATCTCAGCGCCACAGAACTTCCAGCACCGTGTCCAC
ACCTCCTTCGACCCCAAAGAAGGCAAGTTTGTGGGCCTCCCCCCACAATGGCAGAACATCCTGGACACA
CTGCGGCGCCCCAAGCCCGTGGTGGACCCTTCGCGAATCACACGGGTGCAGCTCCAGCCCATGAAGACA
GTGGTGCGGGGCAGCGCGATGCCTGTGGATGGCTACATCTCGGGGCTGCTCAACGACATCCAGAAGTTG
TCAGTCATCAGCTCCAACACCCTGCGTGGCCGCAGCCCCACCAGCCGGCGGCGGGCACAGTCCCTGGGG
CTGCTGGGGGATGAGCACTGGGCCACCGACCCAGACATGTACCTCCAGAGCCCCCAGTCTGAGCGCACT
GACCCCCACGGCCTCTACCTCAGCTGCAACGGGGGCACACCAGCAGGCCACAAGCAGATGCCGTGGCCC
GAGCCACAGAGCCCACGGGTCCTGCCCAATGGGCTGGCTGCAAAGGCACAGTCCCTGGGCCCCGCCGAG
TTTCAGGGTGCCTCGCAGCGCTGTCTGCAGCTGGGTGCCTGCCTGCAGAGCTCCCCACCAGGAGCCTCG
CCCCCCACGGGCACCAATAGGCATGGAATGAAGGCTGCCAAGCATGGCTCTGAGGAGGCCCGGCCACAG
TCCTGCCTGGTGGGCTCAGCCACAGGCAGGCCAGGTGGGGAAGGCAGCCCTAGCCCTAAGACCCGGGAG
AGCAGCCTGAAGCGCAGGCTATTCCGAAGCATGTTCCTGTCCACTGCTGCCACAGCCCCTCCAAGCAGC
AGCAAGCCAGGCCCTCCACCACAGAGCAAGCCCAACTCCTCTTTCCGACCGCCGCAGAAAGACAACCCC
CCAAGCCTGGTGGCCAAGGCCCAGTCCTTGCCCTCGGACCAGCCGGTGGGGACCTTCAGCCCTCTGACC
ACTTCGGATACCAGCAGCCCCCAGAAGTCCCTCCGCACAGCCCCGGCCACAGGCCAGCTTCCAGGCCGG
TCTTCCCCAGCGGGATCCCCCCGCACCTGGCACGCCCAGATCAGCACCAGCAACCTGTACCTGCCCCAG
GACCCCACGGTTGCCAAGGGTGCCCTGGCTGGTGAGGACACAGGTGTTGTGACACATGAGCAGTTCAAG
GCTGCGCTCAGGATGGTGGTGGACCAGGGTGACCCCCGGCTGCTGCTGGACAGCTACGTGAAGATTGGC
GAGGGCTCCACCGGCATCGTCTGCTTGGCCCGGGAGAAGCACTCGGGCCGCCAGGTGGCCGTCAAGATG
ATGGACCTCAGGAAGCAGCAGCGCAGGGAGCTGCTCTTCAACGAGGTGGTGATCATGCGGGACTACCAG
CACTTCAACGTGGTGGAGATGTACAAGAGCTACCTGGTGGGCGAGGAGCTGTGGGTGCTCATGGAGTTC
CTGCAGGGAGGAGCCCTCACAGACATCGTCTCCCAAGTCAGGCTGAATGAGGAGCAGATTGCCACTGTG
TGTGAGGCTGTGCTGCAGGCCCTGGCCTACCTGCATGCTCAGGGTGTCATCCACCGGGACATCAAGAGT
GACTCCATCCTGCTGACCCTCGATGGCAGGGTGAAGCTCTCGGACTTCGGATTCTGTGCTCAGATCAGC
AAAGACGTCCCTAAGAGGAAGTCCCTGGTGGGAACCCCCTACTGGATGGCTCCTGAAGTGATCTCCAGG
TCTTTGTATGCCACTGAGGTCTCCCCAGTGCTGCGAGACTTCCTGGAGCGGATGCTGGTGCGGGACCCC
CAAGAGAGAGCCACAGCCCAGGAGCTCCTAGACCACCCCTTCCTGCTGCAGACAGGGCTACCTGAGTGC
CTGGTGCCCCTGATCCAGCTCTACCGAAAGCAGACCTCCACCTGCTGA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001276718
Insert Size:	1911 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:	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_001276718.1
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:	69.8 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] Transcript Variant: This variant (5) differs in the 5' UTR and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.