

Product datasheet for **SC320565**

PAK4 (NM_001014831) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAK4 (NM_001014831) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001014831.2
GCGGGAGTGTCCGCGTGGTGGCGGTGCAAGAGAGCTGAGGGAGGCGCGAGGGCGCGGAG
TTCCAGGTCGAGCAGTTAGGCCGCGAGCGACTGCGGCGCCGAGCCGATGAGTAACCCGAA
GCCCTAGAGGAGTGGTCACTGCCTGAGGGCACTTCTGTCCCACCAGCATCAGACCAGG
TGTGTGCAGGCTCTCTATGGGATGCCGCCATCAGAATGTCTTCTCAGCCCTTTGTT
TTTTAAAGTGGCTTTGGTCGACCATTGCTCTGTGCTTGGTACTGTGTCAAGGGCCCGAT
TGAAGACCACAGATCCTAAAGATAGGGGAGTGTGCGCACAAGGCTGCCTGGGGTGCCCTC
TTAACCCAGGGGATCAGTAACCCGTGCTGAGTCAATATCCAAAGGCCGACCCGATCCC
CGGCACCATGTTTGGGAAGAGGAAGAAGCGGGTGGAGATCTCCGCGCCGTCCAACCTCGA
GCACCCGCTGCACACGGGCTTCGACCAGCACGAGCAGAAGTTCACGGGGCTGCCCGCCA
GTGGCAGAGCCTGATCGAGGAGTCGGCTCGCCGGCCCAAGCCCTCGTCGACCCCGCTG
CATCACCTCCATCCAGCCCGGGGCCCAAGACCATCGTGCAGGGCAGCAAAGGTGCCAA
AGATGGGGCCCTCAGCTGCTGTGGACGAGTTTGAGAACATGTCGGTGACACGCTCCAA
CTCCCTGCGGAGAGACAGCCCGCCGCCCGCCCGTCCCGCCAGGAAAATGGGATGCC
AGAGGAGCCGGCCACCACGGCCAGAGGGGGCCAGGGAAGGCAGGCAGCCGAGGCCGGTT
CGCCGGTACAGCGAGGGCGGGTGGCGGCACTGGTGACAGGCGACGGGCGGGCCAGAGAA
GAGGCCCAAGTCTTCCAGGGAGGGCTCAGGGGGTCCCCAGGAGTCTCCCGGGACAAACG
CCCCCTCTCCGGGCTGATGTGGCACCCCCAGCCTGCTGGTCTGGCCAGTGGGGCGAA
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GGGTGCCAGGGGGAGCCTCATGACGTGGCCCTAACGGGCCATCAGCGGGGGCCCTGGC
CATCCCCAGTCTCTCTCTCTCTCCCGCCTCCACCCGAGCCCGAGGTGCCCCAG
CCCTGGAGTGTGGGACCCACGCCTCAGAGCCCAGCTGGCCCTCCAGCCTGCACCC
CGCCGCCCTGCTGTTCTGGGCCCTTGGCCCGCTCACACAGCGGGAGCCACAGCG
AGTATCCCATGAGCAGTTCGGGGTGCCTGACAGTGGTGGTGGACCCAGGCGACCCCG
CTCTACCTGGACAACCTCATCAAGATTGGCGAGGGCTCCACGGGCATCGTGTGCATCGC
CACCGTGCAGCTCGGGCAAGCTGGTGGCCGTCAGAAGATGGACCTGCGCAAGCAGCA
GAGGCGGAGCTGCTCTTCAACGAGGTGTAATCATGAGGGACTACCAGCAGGAAATGT
GGTGGAGATGTACAACAGCTACCTGGTGGGGGACGAGCTCTGGTGGTGCATGGAGTTCT
GGAAGGAGGCGCCCTCACCGACATCGTACCCACACCAGGATGAACGAGGAGCAGATCGC
GGCCGTGTGCTTGCAGTGTGACGGCCCTGTCGGTGTCCACGCCAGGGCGTCATCCA
CCGGGACATCAAGAGCGACTCGATCCTGCTGACCCATGATGGCAGGGTGAAGCTGTCAGA
CTTTGGGTTCTGCGCCAGGTGAGCAAGGAAGTCCCCGAAGGAAGTCCGTTGGTGGCGAC
GCCCTACTGGATGGCCCCAGAGCTCATCTCCCGCTTCCCTACGGGCCAGAGGTAGACAT
CTGGTTCGCTGGGGATAATGGTGATTGAGATGGTGGACGGAGAGCCCCCTACTTCAACGA
GCCACCCCTCAAAGCCATGAAGATGATTCGGGACAACCTGCCACCCCGACTGAAGAACCT
GCACAAGGTGTGCCATCCCTGAAGGGTTCCTGGACCGCTGCTGGTGGCAGACCCTGC
CCAGCGGGCCACGGCAGCCGAGCTGTGAAGCACCCATTCTGGCCAAGGCAGGGCCGCC
TGCCAGCATCGTCCCTCATGCGCCAGAACCACAGATGAGGCCAGCGCCCTTCCC
CTCAACCAAAGAGCCCCCGGGTCAACCCCGCCCACTGAGGCCAGTAGGGGGCCAGGCC
TCCCACTCTCCAGCCCGGAGATGCTCCGCGTGGCACACCCTCCTTGTGGGGTAG
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TCGTGGGAGCAAGCGAGGCTCCAGGACCCCAACCCTCTGGGACAGGCCCTCCCCATGT
TCTTCTGTCTCCAGGAAGGGCAGCGCCCTCCCATCACTGGAAGTCTGCAGTGGGGTGC
CTGGGGTGGAGAGAACTAAGAGGTGAACATGTATGAGTGTGTGCACGCTGTGAGTG
TGCATGTGTGTGTGCAAAGGTCCAGCCACCCCGTCTCCAGCCTGCAAGGGGTGTCTG
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TGTCCGAAGAGTGGCCTTTCCCGTAGCCCTGCGCCCTTTCTGTGGCTGGATGGGGAG
ACAGGTACAGGGCCCCACCCCTCTCCAGCCCTGAGCAAATGACTACTGCACCTGGACA
GCCTCCTCTTTTCTAGAAGTCTATTTATATTGTATTTATAAACACTCTAGCCCCTGCC
TTATTGGGGACAGATGGTCCCTGCTGCGGGGTGGCCCTGGCAGAACCCTGCCTGAA
GAACCAGGTTCTGCCCAGTGCAGCGAGCCCGAGCCCGCCACCCCTGCCTCGAGTTAGT
TTTACAATTAACATTTGCTTGTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:	Please inquire
ACCN:	NM_001014831
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001014831.2</u> , <u>NP_001014831.1</u>
RefSeq Size:	3064 bp
RefSeq ORF:	1776 bp
Locus ID:	10298
UniProt ID:	<u>O96013</u>
Cytogenetics:	19q13.2
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>PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) has an additional segment in the 5' UTR, and encodes the same isoform (1), as compared to variant 1.</p>