

Product datasheet for **SC323145**

PAK3 (NM_001128168) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAK3 (NM_001128168) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAK3
Synonyms:	ARA; beta-PAK; bPAK; MRX30; MRX47; OPHN3; PAK-3; PAK3beta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001128168 edited
 ATGTCTGACGGTCTGGATAATGAAGAGAAAACCCCGGCTCCTCCACTGAGGATGAATAGT
 AACAAACCGGGATTCTTCAGCACTCAACCACAGCTCCAAACCACTTCCCATGGCCCCTGAA
 GAGAAGAATAAGAAAGCCAGGCTTCGCTCTATCTTCCCAGGAGGAGGGGATAAAACCAAT
 AAGAAGAAGGAGAAAGAGCGCCAGAGATCTCTTCTCAGACTTTGAGCATACGATT
 CATGTGGGGTTTGTGCAGTCACCGGGGAATCACTAACTCCCCTTTCCAGACCTCTAGA
 CCTGTGACGGTCGCTTCAAGTCAATCAGAGGGAAAAATGCCAGATCTCTATGGCTCACAG
 ATGTGCCAGGGGAAAGCTCCAGAGGGAATCCAGAGCAATGGGCACGATTACTCCAAACT
 TCCAACATAACAAAATTGGAACAGAAGAAGAACCCACAAGCTGTTCTAGATGTTCTCAA
 TTCTATGATTCCAAAGAAACAGTCAACAACCAGAAATACATGAGCTTTACATCAGGAGAT
 AAAAGTGACATGGATACATAGCAGCCCATCTTCGAGTACAAAAACAGCATCTGAGCCT
 CCATTGGCCCCTCTGTGTCTGAAGAAGAAGATGAAGAGGAAGAAGAAGAAGAAGATGAA
 AATGAGCCACCACAGTTATCGCACCAAGACCAGAGCATACAAAATCAATCTATACTCGT
 TCTGTGGTTGAATCCATTGCTTACCAGCAGTACCAAATAAAGAGGTACACCACCCTCT
 GCTGAAAATGCCAATCCAGTACTTTGTACAGGAACACAGATCGGCAAAGAAAAAATCC
 AAGATGACAGATGAGGAGATCTTAGAGAAGCTAAGAAGCATTGTGAGTGTGGGGACCCA
 AAGAAAAATACACAAGATTTGAAAAAATGGTCAAGGGGCATCAGGTAAGTTATACA
 GCACTAGACATTGCAACAGGACAAGAGGTGGCCATAAAGCAGATGAACCTTCAACAGCAA
 CCCAAGAAGGAATTAATTATTAATGAAATCTGGTCATGAGGGAAAAATAAGAACCCTAAT
 ATTGTTAATTATTTAGATAGCTACTTGGTGGGTGATGAACTATGGGTAGTCATGGAATAC
 TTGGCTGGTGGCTCTCTGACTGATGTGGTCACAGAGACCTGTATGGATGAAGGACAGATA
 GCAGCTGTCTGCAGAGAGTGCCTGCAAGCTTTGGATTTCTGCACTCAAACCAGGTGATC
 CATAGAGATATAAAGAGTGACAATATTCTCTCGGGATGGATGGCTCTGTTAAATTGACT
 GACTTTGGGTTCTGTGCCAGATCACTCCTGAGCAAAGTAAACGAAGCACTATGGTGGGA
 ACCCCATATTGGATGGCACCTGAGGTGGTACTCGAAAAGCTTATGGTCCGAAAGTTGAT
 ATCTGGTCTCTTGGAAATTATGGCAATTGAAATGGTGGAAAGGTGAACCCCTTACCTTAAT
 GAAAATCCACTCAGGGCATTGTATCTGATAGCCACTAATGGAACCTCAGAGCTCCAGAAT
 CCTGAGAGACTGTCAGCTGTATTCCGTGACTTTTTAAATCGTGTCTTGAGATGGATGTG
 GATAGGCGAGGATCTGCCAAGGAGCTTTTGCAGCATCCATTTTTAAAATTAGCCAAGCT
 CTCTCCAGCTGACTCCTCTGATTATCGCTGCAAAGGAAGCAATTAAGAACAGCAGCCGC
 TAA

Restriction Sites: Please inquire

ACCN: NM_001128168

Insert Size: 2400 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).

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_001128168.1, NP_001121640.1</u>
RefSeq Size:	2268 bp
RefSeq ORF:	1743 bp
Locus ID:	5063
UniProt ID:	<u>O75914</u>
Cytogenetics:	Xq23
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Protein Pathways:	Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a serine-threonine kinase and forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1. This protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of a non-syndromic form of X-linked intellectual disability. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2017]</p> <p>Transcript Variant: This variant (4) represents use of an alternate promoter and contains two alternate in-frame exons compared to variant 1. The encoded isoform (b, also known as ab) is longer than isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>