

## Product datasheet for **SC323130**

### PAK3 (NM\_001128167) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PAK3 (NM\_001128167) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PAK3  
**Synonyms:** ARA; beta-PAK; bPAK; MRX30; MRX47; OPHN3; PAK-3; PAK3beta  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001128167, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGACGGTCTGGATAATGAAGAGAAACCCCGGCTCCTCCACTGAGGATGAATAGT
AACCAACCGGGATTCTTCAGCACTCAACCACAGCTCCAACCACTTCCCATGGCCCCTGAA
GAGAAGAATAAGAAAGCCAGGCTTCGCTCTATCTTCCCAGGAGGAGGGGATAAAACCAAT
AAGAAGAAGGAGAAAGAGCGCCAGAGATCTCTTCTTCCAGACTTTGAGCATAACGATT
CATGTGGGTTTGGATGCAGTCACCGGGGAATTCAGTGAATTCAGAGCAATGGGCACGA
TTACTCCAACTCCAACATAACAAAATTGGAACAGAAGAAGAACCCACAAGCTGTTCTA
GATGTTCTCAAATCTATGATTCCAAGAAACAGTCAACAACCAGAAATACATGAGCTTT
ACATCAGGAGATAAAAGTGCACATGGATACATAGCAGCCATCCTTCGAGTACAAAAACA
GCATCTGAGCCTCCATTGGCCCCCTCTGTGTCTGAAGAAGAAGATGAAGGGAAGAAAGAA
GAAGAAGATGAAAATGAGCCACCACCAGTTATCGCACCAAGACCAGAGCATACAAAATCA
ATCTATACTCGTTCTGTGGTTGAATCCATTGCTTCACCAGCAGTACCAAAATAAGAGGTC
ACACCACCCTCTGCTGAAAATGCCAATTCAGTACTTTGTACAGGAACACAGATCGGCAA
AGAAAAAATCCAAGATGACAGATGAGGAGATCTTAGAGAAGCTAAGAAGCATTGTGAGT
GTTGGGGACCCAAAGAAAAAATACACAAGATTTGAAAAAATTGGTCAAGGGGCATCAGGT
ACTGTTTATACAGCACTAGACATTGCAACAGGACAAGAGGTGGCCATAAAGCAGATGAAC
CTTCAACAGCAACCCAAGAAGGAATTAATTATTAATGAAATTCTGGTCATGAGGGAAAAT
AAGAACCCTAATATTGTTAATTATTTAGATAGCTACTTGGTGGGTGATGAACTATGGGTA
GTCATGGAATACTTGGCTGGTGGCTCTCTGACTGATGTGGTCACAGAGACCTGTATGGAT
GAAGGACAGATAGCAGCTGTCTGCAGAGAGTGCCTGCAAGCTTTGGATTCCTGCACTCA
AACCAGGTGATCCATAGAGATATAAAGAGTGACAATATTCTTCTCGGGATGGATGGCTCT
GTTAAATTGACTGACTTTGGTTCTGTGCCAGATCACTCCTGAGCAAAGTAAACGAAGC
ACTATGGTGGGAACCCCATATTGGATGGCACCTGAGGTGGTACTCGAAAAGCTTATGGT
CCGAAAGTTGATATCTGGTCTCTTGAATTATGGCAATTGAAATGGTGGAAAGGTGAACCC
CCTTACCTTAATGAAAATCCACTCAGGGCATTGTATCTGATAGCCACTAATGAACTCCA
GAGCTCCAGAATCCTGAGAGACTGTGAGCTGTATTCCGTGACTTTTTAAATCGCTGTCTT
GAGATGGATGTGGATAGGCGAGGATCTGCCAAGGAGCTTTTGCAGCATCCATTTTTAAAA
TTAGCCAAGCCTCTCTCCAGCCTGACTCCTCTGATTATCGCTGCAAAAGGAAGCAATTAAG
AACAGCAGCCGC
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001128167
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001128167.1</a></u> , <u><a href="#">NP_001121639.1</a></u>
<b>RefSeq Size:</b>	2504 bp
<b>RefSeq ORF:</b>	1635 bp
<b>Locus ID:</b>	5063
<b>UniProt ID:</b>	<u><a href="#">O75914</a></u>
<b>Cytogenetics:</b>	Xq23
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway
<b>Gene Summary:</b>	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]