

## Product datasheet for SC127179

### PAK1 interacting protein 1 (PAK1IP1) (NM\_017906) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAK1 interacting protein 1 (PAK1IP1) (NM_017906) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAK1 interacting protein 1
Synonyms:	bA421M1.5; hPIP1; MAK11; PIP1; WDR84
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127179 sequence for NM_017906 edited (data generated by NextGen Sequencing)

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ATGGAGCTGGTCGCTGGTTGCTACGAGCAGGTCCTCTTTGGGTTGCTGTACACCCGGAG
CCCGAGGCTTGCGGCGACCACGNNNATGGACTCTTGTGGCTGACTTCACTCACCATGCT
CACACTGCCTCCTTGTCAGCAGTAGCTGTAATAGTCGTTTTGTGGTCACTGGGAGCAAA
GATGAAACAATTCACATTTATGACATGAAAAAGAAGATTGAGCATGGGGCTCTAGTGCAT
CACAGTGGTACAATAACTTGCTGAAATCTATGGCAACAGGCATTTAATCAGTGGAGCG
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GCTCACAAGGACAGGTGACCTTCTTTCTATTACCCATCTGGCAAGTTGGCCCTGTGC
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GCTGGAGATGAAGAAGTTATAAGGTTTTTGGACTGTGATTCACTAGTGTGCCCTCTGCGAA
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GTTATTGTTTCAGCATCGAGTGTGGTTTTCATCAAAATGTGGAAGCTTAAGCAGGATAAG
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CCTGTAAGTAAAGAACAGTCCAAAATTGGCAAAAAGGAGCCTGGTGACACAGTGCACAAA
GAAGAAAAGCGGTCAAAACCTAACACAAAAGAAACGCGGTTTAAACAGGTGACAGTAAAGAA
GCAACAAAAGAAAGTGGCCTGATATCAACCAAGAGAGGAAAATGGTAGAAATGTTGGAA
AAGAAGAGGAAAAAGAAGAAAATAAAAACAATGCAGTGA

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Clone variation with respect to NM\_017906.2  
83 a=>n;84 g=>n;85 c=>n;86 a=>n



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_017906 unedited</p> <pre>TCAAATTTTGTAAATACGACTCACTATTAGGGCGGCCGCGATTTCGGCACCAATCTTTACT TATTCTCTTCTTGAAAAATCCATGTGACCTCCCGCGCTTAAAGTGTTCACGTTACAG GCGACTTAAAGGCAGCCCTGGAGCTGACGTATAATTCGAGCGCCGATGCAGAAAGGAGT CAGGTGTTTTTTTTTTTTTTTTTTTTGGTTTCCGGTCTGTACCTCCAGGCTGAGCCGG GCTGGCGGAAGAGGCACGTGCGTGTGAATGGAGCTGGTCGCTGGTTGCTACGAGCAGG TCCTCTTTGGGTTTCGCTGTACACCCGGAGCCCGAGGCTTGCGGGACACGAGCAGCAAT GGACTCTTGTGGCTGACTTCACTCACCATTGCTCACACTGCCTCCTTGTACGACAGTAGCTG TAAATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTATGACATGA AAAAGAAGATTGAGCATGGGGCTCTAGTGCATCACAGTGGTACAATAACTGCCTGAAAT TCTATGGCAACAGGCATTTAATCAGTGGAGCGGAAGATGGACTCATCTGTATCTGGGATG CAAAGAAATGGGAATGCCTGAAGTCAATTAAGCTCACAAAGGACAGGTGACCTTCCTTT CTATTCACCCATCTGGCAAGTTGGCCCTGTCGGTGGTACAGATAAAAACCTTAAGAAGCT GGAATCTGTAGAAGGAAGATCAGCATTCAAAAAATATAAAACAAAATGCTCACATAG TNAGAATGGTNCCCAAGAGAGAGCAGTNTGTAGTATCATACAGAATAAATAGACTCTATC AGCTTGCAGTGCATCCATTAGTGGCACCTCACAATGAAAGAGAATTNNCTCTGTAATTNC TTTANAGTCTGCCTTTGCATGGCTGAATGNAAGTATAAGGNTTTTTGACTGGATTAC TANGTGCCTTGCGAATTAAGCCATGAAACAGGTAAGACATGTTTCAGTTTGAATCC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_017906 unedited</p> <pre>GGGGATTCTGTGGACCACGGACCGCATTTNAGGATCGAGTTTTTTTCTTTTTTTTTTAA AAAAAACCTCTAAATGGTTTTTAAATATATATTTTTTCCAAAGGAAAAAATTTCTTG CTTTTACTCAGGGGAAAAAAAAAAAAAATTAAGGTACATTTGGAGTAGAATGATTTTCACTA AAAGAGTTCTTTTCAAGGACATCTGTGATTCAGTGCATTGTTTTATTTTCTTTCTTTTC CTCTTCTTTTCCAACTTTCTACCATTTTCTCTTCTTGGTTGATATCAGGCCACTTTCT TTTGTGCTTTCTTACTGTACCTGTTAAACCGGTTTCTTTGTGTTAGGTTTTGACCGC TTTTCTTCTTTGTGCACTGTGTCACCAGGCTCCTTTTTGCCAATTTTGGACTGTTCTTTA CTTACAGGAGAAGGCTCTGCAGCTGGAGGAAGGCTTTCTTTTATGCTGCCACTTTGCT AGCCCACTCCAAGACACGTGAGCCTGGCATTAGTGTATTTTACAGAGTAAAGATGGG GGAACCTTTCTTATCCTGCTTAAGCTTCCACATTTTGTGAAACCATCACTCGATGCTGAA ACAATAACATGATGCTCTGGAATTTCAAACATGAACATGCTTTACCCTGTTTTTATGTA GCTTTAAATTCGAGAGGACACTAGTGAATCACAGTCAAAAAACCTTATAACTTCTTCA TCTCCAGCCACTGCAAGGACAGACTCTGAAAGAAATTTAACAGAGGAAATTTCTTTTTCA TTTGTGATGGTGCCACTAATGGATGCAAGTGTCAAGCTGATAGATGTCATTTTATTCTGT AAGAAAACACTACTGCTCTCCTCTTGGGGACCATTCTCTATGTGAGCATTTTGTTTTT ATTT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017906
<b>Insert Size:</b>	1650 bp
<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>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).

**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\\_017906.2](#), [NP\\_060376.2](#)

**RefSeq Size:** 1511 bp

**RefSeq ORF:** 1179 bp

**Locus ID:** 55003

**UniProt ID:** [Q9NWT1](#)

**Cytogenetics:** 6p24.2

**Domains:** WD40

**Gene Summary:** Negatively regulates the PAK1 kinase. PAK1 is a member of the PAK kinase family, which has been shown to play a positive role in the regulation of signaling pathways involving MAPK8 and RELA. PAK1 exists as an inactive homodimer, which is activated by binding of small GTPases such as CDC42 to an N-terminal regulatory domain. PAK1IP1 also binds to the N-terminus of PAK1, and inhibits the specific activation of PAK1 by CDC42. May be involved in ribosomal large subunit assembly (PubMed:24120868).[UniProtKB/Swiss-Prot Function]