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Product datasheet for RC226086

PAK6 (NM_001128629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAK6 (NM_001128629) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAK6
Synonyms:	PAK-5; PAK-6; PAK5; PAK6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC226086 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCGCAAGAAAAAGAAGAAACGCCCTGAGATCTCAGCGCCACAGAACTTCCAGCACCGTGTCCACA
CCTCCTTCGACCCCAAAGAAGGCAAGTTTGTGGGCCTCCCCCCACAATGGCAGAACATCCTGGACACACT
GCGGCGCCCCAAGCCCGTGGTGGACCCTTCGCGAATCACACGGGTGCAGCTCCAGCCCATGAAGACAGTG
GTGCGGGGCAGCGCGATGCCTGTGGATGGCTACATCTCGGGGCTGCTCAACGACATCCAGAAGTTGTCAG
TCATCAGCTCCAACACCCTGCGTGGCCGCAGCCCCACCAGCCGGCGGCGGGCACAGTCCCTGGGGCTGCT
GGGGGATGAGCACTGGGCCACCGACCCAGACATGTACCTCCAGAGCCCCCAGTCTGAGCGCACTGACCCC
CACGGCCTCTACCTCAGCTGCAACGGGGGCACACCAGCAGGCCACAAGCAGATGCCGTGGCCCGAGCCAC
AGAGCCCACGGGTCCTGCCCAATGGGCTGGCTGCAAAGGCACAGTCCCTGGGCCCCGCCGAGTTTCAGGG
TGCCTCGCAGCGCTGTCTGCAGCTGGGTGCCTGCCTGCAGAGCTCCCCACCAGGAGCCTCGCCCCCCACG
GGCACCAATAGGCATGGAATGAAGGCTGCCAAGCATGGCTCTGAGGAGGCCCGGCCACAGTCCTGCCTGG
TGGGCTCAGCCACAGGCAGGCCAGGTGGGGAAGGCAGCCCTAGCCCTAAGACCCGGGAGAGCAGCCTGAA
GCGCAGGCTATTCCGAAGCATGTTCCTGTCCACTGCTGCCACAGCCCCTCCAAGCAGCAGCAAGCCAGGC
CCTCCACCACAGAGCAAGCCCAACTCCTCTTTCCGACCGCCGCAGAAAGACAACCCCCCAAGCCTGGTGG
CCAAGGCCCAGTCCTTGCCCTCGGACCAGCCGGTGGGGACCTTCAGCCCTCTGACCACTTCGGATACCAG
CAGCCCCCAGAAGTCCCTCCGCACAGCCCCGGCCACAGGCCAGCTTCCAGGCCGGTCTTCCCCAGCGGGA
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TGGCAGGGTGAAGCTCTCGGACTTCGGATTCTGTGCTCAGATCAGCAAAGACGTCCCTAAGAGGAAGTCC
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TCTGGTCTCTGGGCATCATGGTGATTGAGATGGTAGATGGGGAGCCACCGTACTTCAGTGACTCCCCAGT
GCAAGCCATGAAGAGGCTCCGGGACAGCCCCCCACCCAAGCTGAAAAACTCTCACAAGGTCTCCCCAGTG
CTGCGAGACTTCCTGGAGCGGATGCTGGTGCGGGACCCCCAAGAGAGAGCCACAGCCCAGGAGCTCCTAG
ACCACCCCTTCCTGCTGCAGACAGGGCTACCTGAGTGCCTGGTGCCCCTGATCCAGCTCTACCGAAAGCA
GACCTCCACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226086 protein sequence
Red=Cloning site Green=Tags(s)

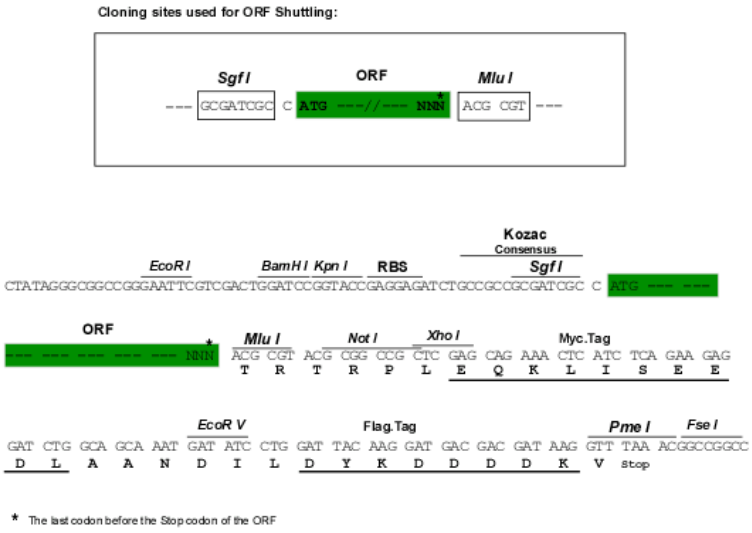
MFRKKKKKRPEISAPQNFQHRVHTSFDPKEGKFVGLPPQWQNILDTLRRPKPVVDPSRITRVQLQPMKTV
VRGSAMPVDGYISGLLNDIQKLSVISSNTLRGRSPTSRRRAQSLGLLGDEHWATDPDMYLQSPQSERTDP
HGLYLSCNGGTPAGHKQMPWPEPQSPRVLPNGLAAKAQSLGPAEFQGASQRCLQLGACLQSSPPGASPPT
GTNRHGMKAAKHGSEEARPQSCLVGSATGRPGGEGSPSPKTRESSLKRRLFRSMFLSTAATAPPSSSKPG
PPPQSKPNSSFRPPQKDNPPSLVAKAQSLPSDQPVGTFSPLTTSDTSSPQKSLRTAPATGQLPGRSSPAG
SPRTWHAQISTSNLYLPQDPTVAKGALAGEDTGVVTHEQFKAALRMVVDQGDPRLLLDSYVKIGEGSTGI
VCLAREKHSGRQVAVKMMDLRKQQRRELLFNEVVIMRDYQHFNVVEMYKSYLVGEELWVLMEFLQGGALT
DIVSQVRLNEEQIATVCEAVLQALAYLHAQGVIHRDIKSDSILLTLDGRVKLSDFGFCAQISKDVPKRKS
LVGTPYWMAPEVISRSLYATEVDIWSLGIMVIEMVDGEPPYFSDSPVQAMKRLRDSPPPKLKNSHKVSPV
LRDFLERMLVRDPQERATAQELLDHPFLLQTGLPECLVPLIQLYRKQTSTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001128629

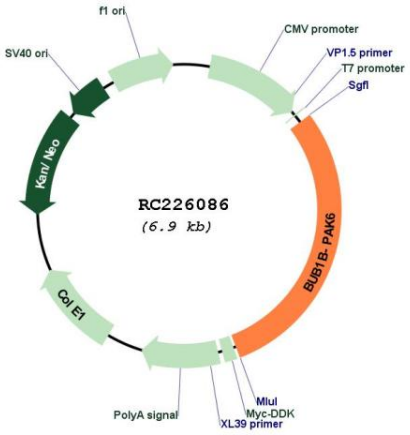
ORF Size: 2043 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

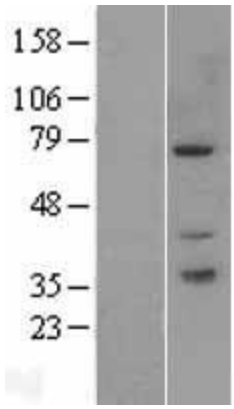
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001128629.3
RefSeq Size:	3808 bp
RefSeq ORF:	2046 bp
Locus ID:	106821730
UniProt ID:	Q9NQU5
Cytogenetics:	15q15.1
MW:	74.9 kDa
Gene Summary:	This gene represents readthrough transcription between the genes BUB1B (mitotic checkpoint serine/threonine-protein kinase BUB1 beta) and PAK6 (serine/threonine-protein kinase PAK 6). The protein encoded by the readthrough transcripts is the same as the product of the downstream gene (PAK6). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC226086



Western blot validation of overexpression lysate (Cat# [LY426985]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226088] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).