

Product datasheet for **MR216829**

Pak6 (NM_001145854) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pak6 (NM_001145854) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pak6
Synonyms:	4732456M09
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR216829 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCGCAAGAAAAGAAGAAACGTCCTGAGATATCAGCCCCGAGAAGCTCCAGCATCGTGTCCACA
 CCTCCTTTGACCCCAAGGAAGGCAAGTTTGTGGGTCTGCCCCACAATGGCAGAACATTCTGGATACTCT
 GAGGCGGCCCAAGCCTGTGGTGGATCCTTCTCGAATCACACGGGTGCAGTTGCAGCCCATGAAGACAGTC
 GTACGGGGCAGCTCAGTCCACGGAGGGCTACATCTCGGGGCTGCTCAACGACATTAGAAGTTGTGAG
 TTATCAGTCCAAACACCTGCGTGGACGCAGCCCCACCAGCCGGCGGGCAGTCCCTGGGGCTGCT
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 CATGGCCTCTACCTCAGTGAATGGGGGCACACCAGCAGGTACAGGCAGGTGCCCTGGCCAGAACCAC
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 TGGTGGGCTCGGCCATTGGCAGGCCAGGTGGAGAAGGCAGCCCTAGCCCTAAGAACCAGGAAAGCAGCCT
 CAAGCACCCGGCTCTTCGAAGCATGTTCTGTCCACTCCTGCCACAGGCGCGGAAGCAGCAGCAAGCCG
 GTCCCTCTGCCGAGAACAAGCCCAATTCTGCTTTCGACCACCACAAAAAGACTCCTCTTCAAACCTGG
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 CCAAGGGGGCCCTGGGTGGCGAAGACAGGGCATTGTGACCCATGAACAGTTCAAGGCTGCGCTCAGGAT
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 CCTTGGCTTACCTGCACGCCAGGGTGCATCCACCGAGATATCAAGAGTGATTCCATCCTGCTGACCC
 TGATGGCAGGGTGAAGCTCTCAGACTTTGGGTTCTGTGCTCAGATCAGCAAAGATGTTCCAAGAGAAA
 TCCCTGGTAGGAATCCATACTGGATGGCTCCTGAAGTATCTCCAGATCCCTGTACGCTACTGAGGTGG
 ATATCTGGTCTCTGGGCATCATGGTGATTGAGATGGTGGATGGAGAACCCCTACTTCAGTGACTCCCC
 AGTGCAAGCCATGAAGAGGCTGCGGGACAGCGCCCAAGCTAAAGAACTCTTACAAGTCTCTCCA
 GTGCTGCGAGACTTCTGGATCGGATGCTGGTACGGGAACCCCAAGAGCGAGCCACGGCCAGGAGCTCC
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 GCAGACCTCCACCTGC

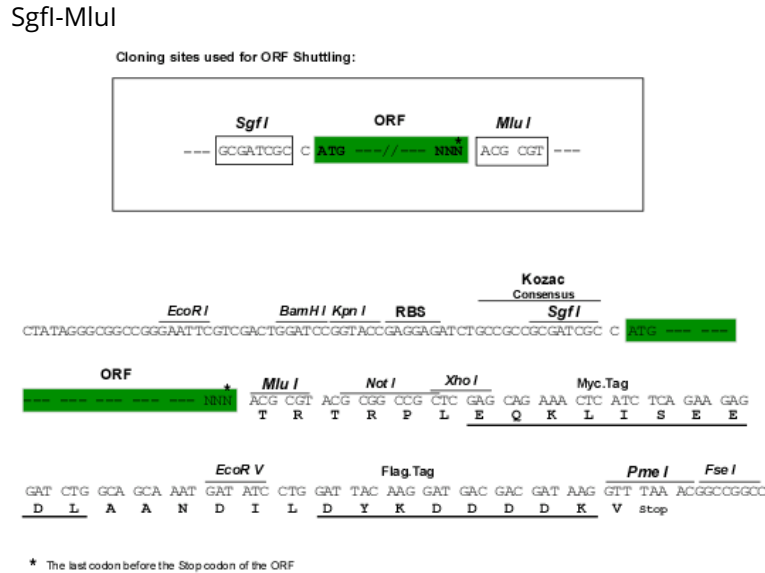
ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216829 protein sequence
Red=Cloning site Green=Tags(s)

MFRKKKKRPEISAPQNFQHRVHTSFDPKKEGKVFGLPPQWQNILDLRRPKPVVDPISRITRVQLQPMKTV
 VRGSSVPTTEGYISGLLNDIQKLSVISSNTLRGRSPTSRRAQSLGGLGDDQWAADPDMYLQSPQSEHTDP
 HGLYLSCNGGTPAGHRQVPWPEPQSPQALPNGMAAKAQLGPAEFQASQRCLQLGACLQSSPPGTSLP
 MATGRRGVKVAKHSSEEARPQSCLVGSALGRPGGEGSPKNESSLKHRLFRSMFLSTPATGAASSSKP
 VPLPQNKPNFAFRPPQKDSNNLVAKAQLPSEQPMGTF SPLTTSDTSSPQKSLRTVPAAGPLPGRSSPA
 GSPRTRHAQISTSNLYLPQDPTVAKGALGGEDTGIVTHEQKAALRMVVDQGDPRLLLDYSYKIGEGSTG
 IVCLAREKHSGRQVAVKMMDLRKQORRELLFNEVVIMRDYQHLNVVEMYKSYLVGEELWVLMFLLQGGAL
 TDIIISQVRLNEEQIATVCEAVLQALAYLHAQGVHRDIKSDSILLTLDGRVKLSDFGFCAQISKDVPKRK
 SLVGTPYWMapevisrslYATEVDIWSLGIEMVMDGEPYPFDSPVQAMKRLRDSAPPKLKNSYKVP
 VLRDFLDRMLVREPQERATAQELLDHPFLQTGLPECLVPLIQLYRQTSTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:
Cloning Scheme:



ACCN: NM_001145854
ORF Size: 2049 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001145854.1](#), [NP_001139326.1](#)

RefSeq Size: 3662 bp

RefSeq ORF: 2049 bp

Locus ID: 214230

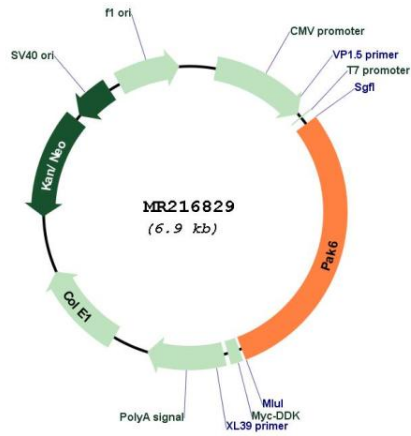
UniProt ID: [Q3ULB5](#)

Cytogenetics: 2 E5

MW: 74.9 kDa

Gene Summary: Serine/threonine protein kinase that plays a role in the regulation of gene transcription. The kinase activity is induced by various effectors including AR or MAP2K6/MAPKK6. Phosphorylates the DNA-binding domain of androgen receptor/AR and thereby inhibits AR-mediated transcription. Inhibits also ESR1-mediated transcription. May play a role in cytoskeleton regulation by interacting with IQGAP1. May protect cells from apoptosis through phosphorylation of BAD (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216829