

## Product datasheet for **MR218274**

### **Pak6 (NM\_001033254) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pak6 (NM_001033254) 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:

>MR218274 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTTCCGCAAGAAAAGAAGAAACGTCCTGAGATATCAGCCCCGAGAAGCTCCAGCATCGTGTCCACA  
CCTCCTTTGACCCCAAGGAAGGCAAGTTTGTGGTCTGCCCCACAATGGCAGAACATTCTGGATACTCT  
GAGGCGGCCCAAGCCTGTGGTGGATCCTTCTCGAATCACACGGGTGCAGTTGCAGCCCATGAAGACAGTC  
GTACGGGGCAGCTCAGTCCACGGAGGGCTACATCTCGGGGCTGCTCAACGACATTAGAAGTTGTGAG  
TTATCAGTCCAAACACCTGCGTGGACGCAGCCCCACCAGCCGGCGGGCAGTCCCTGGGGCTGCT  
GGGAGATGATCAGTGGGCTGCTGACCCGATATGTACCTCAAAGCCCCAGTCGGAGCACACTGATCCC  
CATGGCCTCTACCTCAGTGAATGGGGGCACACCAGCAGGTACAGGCAGGTGCCCTGGCCAGAACCAC  
AGAGCCCCGAGGCCCTGCCAATGGGATGGCTGCCAAGGCGCAGTCACTGGGCCCTGCTGAGTTCAGGG  
TGCTCACAACGCTGCCTGCAGCAGCTGGGTGCCTGCCTGCAGAGTTCACCACCCGGTACCTCACTCCCT  
ATGGCCACAGGGAGGCGTGGGGTGAAGTTGCCAAGCATAGCTCCGAAGAGGCCCGCCACAGTCCCTGCC  
TGGTGGGCTCGGCCATTGGCAGGCCAGGTGGAGAAGGCAGCCCTAGCCCTAAGAACCAGGAAGCAGCCT  
CAAGCACCCGGCTCTTCGAAGCATGTTCTGTCCACTCCTGCCACAGGCGCGCAAGCAGCAGCAAGCCG  
GTCCCTCTGCCGAGAACAAGCCCAATTCTGCTTCCGACCACCACAAAAAGACTCCTCTCAAACCTGG  
TAGCCAAGGCCAGTCTTGCCCTCAGAGCAGCCCATGGGGACCTTCAGTCTCTGACCCTCAGATAC  
CAGCAGCCCCAGAAGTCCCTCCGCACAGTTCAGCCGCTGGTCCACTCCAGGCCGGTCTTCTCCAGCA  
GGCTCCCCCGTACCCGGCATGCTCAGATCAGCACCAGCAATCTACCTGCCCCAGGACCCACAGTGG  
CCAAGGGGGCCTGGGTGGCGAAGACAGGGCATTGTGACCCATGAACAGTTCAAGGCTGCGCTCAGGAT  
GGTGGTGGACCAGGGTGACCCCTCGGCTGCTGCTGGACAGCTACGTGAAGATTGGGGAGGGCTCCACGGGC  
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GATGTACAAGAGTTACCTGGTAGGAGAGGAGCTGTGGGTGTTGATGGAGTTCCTGCAGGGCGGGCCCTC  
ACAGACATCATCTCCAAGTCAGACTGAATGAGGAGCAGATTGCCACTGTGTGTAAGCTGTGCTCAGG  
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TGATGGCAGGGTGAAGCTCTCAGACTTTGGTCTGTGCTCAGATCAGCAAAGATGTTCCAAGAGAAA  
TCCCTGGTAGGAATCCATACTGGATGGCTCCTGAAGTATCTCCAGATCCCTGTACGCTACTGAGGTGG  
ATATCTGGTCTCTGGGCATCATGGTATTGAGATGGTGGATGGAGAACCCCTACTTCAGTGACTCCCC  
AGTGCAAGCCATGAAGAGGCTGCGGGACAGCGCCCAAGCTAAAGAACTCTTACAAGTCTCTCCA  
GTGCTGCGAGACTTCTGGATCGGATGCTGGTACGGGAACCCCAAGAGCGAGCCACGGCCAGGAGCTCC  
TGGATACCCGTTTCTGCTGCAGACGGGGCTGCCTGAGTGTCTGGTGCCTCTGATACAGCTCTACCGCAA  
GCAGACCTCCACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218274 protein sequence  
Red=Cloning site Green=Tags(s)

```
MFRKKKKRPEISAPQNFQHRVHTSFDPKKEGKVFGLPPQWQNILDLRRPKPVVDPISRITRVQLQPMKTV
VRGSSVPTTEGYISGLLNDIQKLSVISSNTLRGRSPTSRRAQSLGLLGDDQWAADPDMYLQSPQSEHTDP
HGLYLSCNGGTPAGHRQVPWPEPQSPQALPNGMAAKAQLGPAEFQASQRCLQLGACLQSSPPGTSPLP
MATGRRRGVKVAKHSSEEARPQSCLVGSAGRPGGEGSPSPKNQESSLKHRLFRSMFLSTPATGAASSSKP
VPLPQNKPNFAFRPPQKDSNNLVAKAQLPSEQPMGTF SPLTTSDTSSPQKSLRTVPAAGPLPGRSSPA
GSPRTRHAQISTSNLYLPQDPTVAKGALGGEDTGIVTHEQKAALRMVVDQGDPRLLLD SYV KIGEGSTG
IVCLAREKHSGRQVAVKMMDLRKQORRELLFNEVVIMRDYQHNLNVVEMYKSYLVGEELWVLMEFLQGGAL
TDIISQVRLNEEQIATVCEAVLQALAYLHAQGVHRDIKSDSILLTLDGRVKLSDFGFCAQISKDVPKPKR
SLVGTPYWMapevisrslYATEVDIWSL GIMVIEMVDGEPYPYFDSPVQAMKRLRDSAPPKLNKSYKVP
VLRDFLDRMLVREPQERATAQELL DHPFLQTGLPECLVPLIQLYRKQTSTC
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001033254

**ORF Size:** 2049 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\\_001033254.1](#), [NM\\_001033254.2](#), [NM\\_001033254.3](#), [NP\\_001028426.2](#)

**RefSeq Size:** 4137 bp

**RefSeq ORF:** 2049 bp

**Locus ID:** 214230

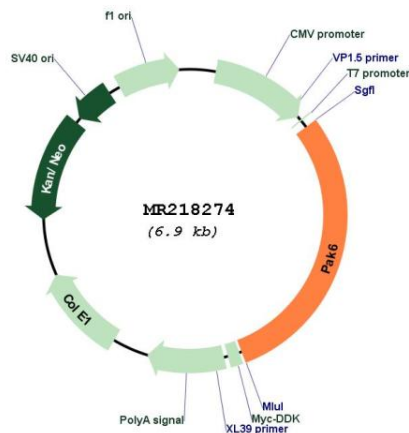
**UniProt ID:** [Q3ULB5](#)

**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 MR218274