

## Product datasheet for **MC220454**

### **Pak6 (NM\_001145854) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC220454 representing NM\_001145854  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTCCGCAAGAAAAGAAGAAACGTCCTGAGATATCAGCCCCGAGAAGCTCCAGCATCGTGTCCACA  
 CCTCCTTTGACCCCAAGGAAGGCAAGTTTGTGGGTCTGCCCCACAATGGCAGAACATTCTGGATACTCT  
 GAGGCGGCCCAAGCCTGTGGTGGATCCTTCTCGAATCACACGGGTGCAGTTGCAGCCCATGAAGACAGTG  
 GTACGGGGCAGCTCAGTGCCACGGAGGGCTACATCTCCGGGCTGCTCAACGACATTAGAAGTTGTGAG  
 TTATCAGTCCAAACCCCTGCGTGGACGCAGCCCCACCAGCCGGCGGGGCACAGTCCCTGGGGCTGCT  
 GGGAGATGATCAGTGGGCTGCTGACCCCGATGTACCTCAAAGCCCCAGTCGGAGCACACTGATCCC  
 CATGGCCTCTACCTCAGTGAATGGGGGCACACCAGCAGGTACAGGCAGGTGCCCTGGCCAGAACCAC  
 AGAGCCCCGAGGCCCTGCCAATGGGATGGCTGCCAAGGCGCAGTCACTGGGCCCTGCTGAGTCCAGGG  
 TGCCCTCACAACGCTGCCTGCAGCAGCTGGGTGCCTGCCTGCAGAGTTCACCACCCGGTACCTCACCCCT  
 ATGGCCACAGGGAGGCGTGGGGTGAAGTTGCCAAGCATAGCTCCGAAGAGGCCCGCCCTCAGTCCCTGCC  
 TGGTGGGCTCCGCCATTGGCAGGCCAGGTGGAGAAGGCAGCCCTAGCCCTAAGAACCAGGAAGCAGCCT  
 CAAGCACCCGGCTCTCCGAAGCATGTTCTGTCCACTCCTGCCACAGGCGCGCAAGCAGCAGCAAGCCG  
 GTCCCTCTGCCACAGAACAAGCCCAATTCTGCTTCCGACCACCACAAAAAGACTCCTCTCAAACCTGG  
 TAGCCAAGGCCAGTCTTGCCCTCAGAGCAGCCCATGGGGACCTTCAGTCTCTGACCCTCAGATAC  
 CAGCAGCCCCAGAAGTCCCTCCGCACAGCTCCAGCCGCTGGTCCACTCCAGGCCGGTCTTCTCCAGCA  
 GGCTCCCCCGTACCCGGCATGCTCAGATCAGCACCAGCAATCTACCTGCCCCAGGACCCACAGTGG  
 CCAAGGGGGCCCTGGGTGGCGAAGACAGGGCATTGTGACCCATGAACAGTTCAAGGCTGCGCTCAGGAT  
 GGTGGTGGACCAGGGTGACCCTCGGCTGCTGCTGGACAGCTACGTGAAGATTGGGGAGGGCTCCACGGGC  
 ATTGTGTGCTGCCCCGGGAGAAGCACTCAGGTGCGCAGGTAGCAGTCAAGATGATGGACCTCAGGAAGC  
 AGCAACGCAGGGAGCTGCTTTAATGAGGTGGTATCATGCGTGACTACCAGCACCTCAACGTGGTGGGA  
 GATGTACAAGAGTTACCTGGTAGGAGAGGAGCTGTGGGTGTTGATGGAGTTCCTGCAGGGCGGGGCCCTC  
 ACAGACATCATCTCCAAGTCACTGAATGAGGAGCAGATTGCCACTGTGTGTAAGCTGTGCTTCAGG  
 CCTTGGCTTACCTGCACGCCAGGGTGCATCCACCGAGATATCAAGAGTATTCCATCCTGCTGACCCCT  
 TGATGGCAGGGTGAAGCTCTCAGACTTTGGTTCTGTGCTCAGATCAGCAAAGATGTTCCAAGAGAAAAG  
 TCCCTGGTAGGAATCCATACTGGATGGCTCCTGAAGTATCTCCAGATCCCTGTACGCTACTGAGGTGG  
 ATATCTGGTCTCTGGGCATCATGGTATTGAGATGGTGGATGGAGAACCCCTACTTCAGTGACTCCCC  
 AGTGCAAGCCATGAAGAGGCTGCGGGACAGCGCCCCACCAAGCTAAAGAAGTCTTACAAGTCTCTCCA  
 GTGCTGCGAGACTTCTGGATCGGATGCTGGTACGGGAACCCCAAGAGCGAGCCACGGCCAGGAGCTTC  
 TGGATACCCGTTTCTGCTGCAGACGGGGCTGCCTGAGTGTCTGGTGCCTCTGATACAGCTCTACCGCAA  
 GCAGACCTCCACCTGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001145854  
**Insert 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](mailto: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](#)

**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

**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]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.