

Product datasheet for **MC220453**

Pak6 (NM_001033254) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pak6 (NM_001033254) 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: >MC220453 representing NM_001033254
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCCGCAAGAAAAGAAGAAACGTCCTGAGATATCAGCCCCGAGAAGTCCAGCATCGTGTCCACA
 CCTCCTTTGACCCCAAGGAAGGCAAGTTTGTGGGTCTGCCCCACAATGGCAGAACATTCTGGATACTCT
 GAGGCGGCCCAAGCCTGTGGTGGATCCTTCTCGAATCACACGGGTGCAGTTGCAGCCCATGAAGACAGTG
 GTACGGGGCAGCTCAGTGCCACGGAGGGCTACATCTCCGGGCTGCTCAACGACATTAGAAAGTTGTGAG
 TTATCAGTCCAACACCCTGCGTGGACGCAGCCCCACCAGCCGGCGGGCAGTCCCTGGGGCTGCT
 GGGAGATGATCAGTGGGCTGCTGACCCCGATGTACCTCAAAGCCCCAGTCGGAGCACACTGATCCC
 CATGGCCTCTACCTCAGTGAATGGGGGCACACCAGCAGGTACAGGCAGGTGCCCTGGCCAGAACCAC
 AGAGCCCGCAGGCCCTGCCAATGGGATGGCTGCCAAGGCGCAGTCACTGGGCCCTGCTGAGTTCAGGG
 TGCTCACAACGCTGCCTGCAGCAGCTGGGTGCCTGCCTGCAGAGTTCACCACCCGGTACCTCACCCCT
 ATGGCCACAGGGAGGCGTGGGGTGAAGTTGCCAAGCATAGCTCCGAAGAGGCCCGCCCTCAGTCCCTGCC
 TGGTGGGCTCCGCCATTGGCAGGCCAGGTGGAGAAGGCAGCCCTAGCCCTAAGAACCAGGAAGCAGCCT
 CAAGCACCCGGCTCTCCGAAGCATGTTCTGTCCACTCCTGCCACAGGCGCGCAAGCAGCAGCAAGCCG
 GTCCCTCTGCCACAGAACAAGCCCAATTCTGCTTCCGACCACCACAAAAGACTCCTCTCAAACCTGG
 TAGCCAAGGCCAGTCTTGCCCTCAGAGCAGCCCATGGGGACCTTCAGTCTCTGACCCTCAGATAC
 CAGCAGCCCCAGAAAGTCCCTCCGCACAGCTCCAGCCGCTGGTCCACTCCAGGCCGGTCTTCTCCAGCA
 GGCTCCCCCGTACCCGGCATGCTCAGATCAGCACCAGCAATCTACCTGCCCCAGGACCCACAGTGG
 CCAAGGGGGCCCTGGGTGGCGAAGACACGGGCATTGTGACCCATGAACAGTTCAAGGCTGCGCTCAGGAT
 GGTGGTGGACCAGGGTGACCCTCGGCTGCTGCTGGACAGCTACGTGAAGATTGGGGAGGGCTCCACGGGC
 ATTGTGTGCTGCCCCGGGAGAAGCACTCAGGTGCGCAGGTAGCAGTCAAGATGATGGACCTCAGGAAGC
 AGCAACGCAGGGAGTGTCTTTAATGAGGTGGTATCATGCGTGACTACCAGCACCTCAACGTGGTGG
 GATGTACAAGAGTTACCTGGTAGGAGAGGAGCTGTGGGTGTTGATGGAGTTCCTGCAGGGCGGGGCCCTC
 ACAGACATCATCTCCAAGTCACTGAATGAGGAGCAGATTGCCACTGTGTGTAAGCTGTGCTTACAGG
 CCTTGGCTTACCTGCACGCCAGGGTGTATCCACCGAGATATCAAGAGTATTCCATCCTGCTGACCCCT
 TGATGGCAGGGTGAAGCTCTCAGACTTTGGTTCTGTGCTCAGATCAGCAAAGATGTTCCAAGAGAAAG
 TCCCTGGTAGGAATCCATACTGGATGGCTCCTGAAGTATCTCCAGATCCCTGTACGCTACTGAGGTGG
 ATATCTGGTCTCTGGGCATCATGGTATTGAGATGGTGGATGGAGAACCCTACTTCAGTGACTCCCC
 AGTGCAAGCCATGAAGAGGCTGCGGGACAGCGCCCCACCAAGCTAAAGAACTCTTACAAGTCTCTCCA
 GTGCTGCGAGACTTCTGGATCGGATGCTGGTACGGGAACCCCAAGAGCGAGCCACGGCCAGGAGCTTC
 TGGATACCCGTTTCTGCTGCAGACGGGGCTGCCTGAGTGTCTGGTGCCTCTGATACAGCTCTACCGCAA
 GCAGACCTCCACCTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033254
- Insert Size:** 2049 bp
- OTI Disclaimer:** 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).
- 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:	<ol style="list-style-type: none">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:	<u>NM_001033254.3, NP_001028426.2</u>
RefSeq Size:	4137 bp
RefSeq ORF:	2049 bp
Locus ID:	214230
UniProt ID:	<u>Q3ULB5</u>
Cytogenetics:	2 E5
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. 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.</p>