

Product datasheet for **MG216829**

Pak6 (NM_001145854) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pak6 (NM_001145854) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pak6
Synonyms:	4732456M09
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216829 representing NM_001145854
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCGCAAGAAAAGAAGAAACGTCCTGAGATATCAGCCCCGAGAAGCTCCAGCATCGTGTCCACA
 CCTCCTTTGACCCCAAGGAAGGCAAGTTTGTGGGTCTGCCCCACAATGGCAGAACATTCTGGATACTCT
 GAGGCGGCCCAAGCCTGTGGTGGATCCTTCTCGAATCACACGGGTGCAGTTGCAGCCCATGAAGACAGTC
 GTACGGGGCAGCTCAGTCCACGGAGGGCTACATCTCGGGGCTGCTCAACGACATTGAGAAGTTGTGAG
 TTATCAGTCCAACACCTGCGTGGACGACGCCACCAGCCGGCGGGCAGTCCCTGGGGCTGCT
 GGGAGATGATCAGTGGGCTGCTGACCCGATATGTACCTCAAAGCCCCAGTCGGAGCACACTGATCCC
 CATGGCCTCTACCTCAGTGAATGGGGGCACACCAGCAGGTACAGGCAGGTGCCCTGGCCAGAACCAC
 AGAGCCCCGAGGCCCTGCCAATGGGATGGCTGCCAAGGCGCAGTCACTGGGCCCTGCTGAGTCCAGGG
 TGCCCTCACAACGCTGCCTGCAGCAGCTGGGTGCCTGCCTGCAGAGTTCACCCCGGTACCTCACTCCCT
 ATGGCCACAGGGAGGCGTGGGGTGAAGGTTGCCAAGCATAGCTCCGAAGAGGCCCGCCACAGTCCCTGCC
 TGGTGGGCTCGGCCATTGGCAGGCCAGGTGGAGAAGGCAGCCCTAGCCCTAAGAACCAGGAAAGCAGCCT
 CAAGCACCGGCTCTTCGAAGCATGTTCTGTCCACTCCTGCCACAGGCGCGCAAGCAGCAGCAAGCCG
 GTCCCTCTGCCGAGAACAAGCCCAATTCTGCTTTCGACCACCACAAAAAGACTCCTCTTCAAACCTGG
 TAGCCAAGGCCAGTCTTGCCCTCAGAGCAGCCCATGGGGACCTTCAGTCTCTGACCCTCAGATAC
 CAGCAGCCCCAGAAGTCCCTCCGCACAGTTCAGCCGCTGGTCCACTCCAGGCCGGTCTTCTCCAGCA
 GGCTCCCCCGTACCCGGCATGCTCAGATCAGCACCAGCAATCTACCTGCCCCAGGACCCACAGTGG
 CCAAGGGGGCCCTGGGTGGCGAAGACACGGGCATTGTGACCCATGAACAGTTCAAGGCTGCGCTCAGGAT
 GGTGGTGGACCAGGGTGACCCCTCGGCTGCTGCTGGACAGCTACGTGAAGATTGGGGAGGGCTCCACGGGC
 ATTGTGTGTCTGGCCCGGAGAAGCACTCAGGTCGCCAGGTAGCAGTCAAGATGATGGACCTCAGGAAGC
 AGCAACGCAGGGAGCTGCTCTTTAATGAGGTGGTATCATGCGTGACTACCAGCACCTCAACGTGGTGG
 GATGTACAAGAGTTACCTGGTAGGAGAGGAGCTGTGGGTGTTGATGGAGTTCCTGCAGGGCGGGCCCTC
 ACAGACATCATCTCCAAGTCAGACTGAATGAGGAGCAGATTGCCACTGTGTGTAAGCTGTGCTCAGG
 CCTTGGCTTACCTGCACGCCAGGGTGCATCCACCGAGATATCAAGAGTGATTCCATCCTGCTGACCC
 TGATGGCAGGGTGAAGCTCTCAGACTTTGGTTCTGTGCTCAGATCAGCAAAGATGTTCCAAGAGAAAG
 TCCCTGGTAGGAATCCATACTGGATGGCTCCTGAAGTATCTCCAGATCCCTGTACGCTACTGAGGTGG
 ATATCTGGTCTCTGGGCATCATGGTATTGAGATGGTGGATGGAGAACCCCTACTTCAGTGACTCCCC
 AGTGCAAGCCATGAAGAGGCTGCGGGACAGCGCCCAAGCTAAAGAACTCTTACAAGTCTCTCCA
 GTGCTGCGAGACTTCTGGATCGGATGCTGGTACGGGAACCCCAAGAGCGAGCCACGGCCAGGAGCTCC
 TGGATACCCGTTTCTGCTGCAGACGGGGCTGCCTGAGTGTCTGGTGCCTCTGATACAGCTCTACCGCAA
 GCAGACCTCCACCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216829 representing NM_001145854
 Red=Cloning site Green=Tags(s)

MFRKKKKRPEISAPQNFQHRVHTSFDPKKEGKVFGLPPQWQNILDTLRRPKPVVDPISRITRVQLQPMKTV
 VRGSSVPTTEGYISGLLNDIQKLSVISSNTLRGRSPTSRRAQSLGLLGDDQWAADPDMYLQSPQSEHTDP
 HGLYLSCNGGTPAGHRQVPWPEPQSPQALPNGMAAKAQLGPAEFQASQRCLQLGACLQSSPPGTSPLP
 MATGRRGVKVAKHSSEEARPQSCLVGSAGI GRPGGEGSPSPKNQESSLKHRLFRSMFLSTPATGAASSSKP
 VPLPQNKPNFAFRPPQKDSNNLVAKAQLPSEQPMGTF SPLTTSDTSSPQKSLRTVPAAGPLPGRSSPA
 GSPRTRHAQISTSNLYLPQDPTVAKGALGGEDTGI VTHEQFKAALRMVVDQGDPRLLLD SYV KIGEGSTG
 IVCLAREKHSGRQVAVKMMDLRKQORRELLFNEVVIMRDYQHNLNVVEMYKSYLVGEELWVLMFLLQGGAL
 TDIIISQVRLNEEQIATVCEAVLQALAYLHAQGV IHRDIKSDSILLTLDGRVKLSDFGFCAQISKDVPKRK
 SLVGTPYWMapevisrslYATEVDIWSL GIMVIEMVDGEPYPYFDSPVQAMKRLRDSAPPKLNKSYKVP
 VLRDFLDRMLVREPQERATAQELL DHPFLLQTGLPECLVPLIQLYRKQTSTC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

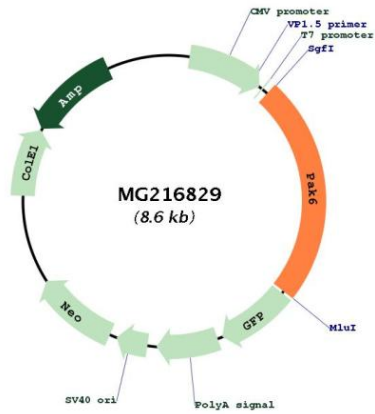


ACCN: NM_001145854

ORF Size: 2046 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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:	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:	<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>

Product images:



Circular map for MG216829