

## Product datasheet for **MR225277**

### **Pak1 (NM\_011035) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pak1 (NM_011035) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pak1
Synonyms:	AW045634; PAK-1; Paka
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225277 representing NM\_011035, **codon optimized**.  
**Due to the complexity of NM\_011035, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCAATAACGGCGTTGATATACAGGACAAACCACCCGCCCTCCCATGAGGAATACATCCACCATGA  
 TCGGGCCCGCAGCAAGGATACGGTACTCTCAACCATGGCTCTAAGCCCCTGCCCAAATCCCGAAGA  
 AAAAAAAAAAGAAGGATAGATTCTATAGAAGCATTCTGCCCGGGATAAGACAAACAAGAAGAAAGAGAAG  
 GAACGCCCGAAATCAGTCTCCCTTCTGATTTTGAGCACAAATTCATGTTGGCTTCGATGCAGTAACCG  
 GAGAGTTTACAGGGATGCCGGAGCAGTGGGCCAGGCTGCTGCAGACATCCAATATCACAAAGAGCGAGCA  
 GAAAAAGAACCCACAGGCAGTGTCTGACGTGCTGGAGTCTACAACAGTAAAAAGACCTCAAACAGTCAA  
 AAGTACATGAGTTTTACCGACAAGAGTGCAGAGGATTACAACCTCCAACACACTGAACGTGAAGACAG  
 TTTCAGAAACCCAGCCGTTCCCCAGTATCTGAGGACGAAGATGATGACGATGATGCCACACCACCACC  
 CGTTATCGCCCTAGGCCCGAGCACACTAAATCAGTTTATACCAGAAGTGTGATTGAACCGCTCCCGGTC  
 ACCCCTACCCGAGATGTGGCTACCTCACCCATCAGTCTACCGAAAACAACACTACCCACCCGGATGCC  
 TGACTCGAAACACTGAGAAACAGAAGAAGAAGCCAAAAATGTCGATGAAGAGATTCTGGAGAAGCTGAG  
 GTCTATTGTGAGTGTGGGGACCCCAAGAAGAAGTACACCCGGTTCGAAAAGATCGGCCAGGGGCAAGC  
 GGCACTGTGTACCCGCCATGGACGTCCCACTGGACAAGAAGTAGCAATCAAGCAAATGAATCTGCAGC  
 AGCAGCCAAAGAAGAACTGATCATTAAATGAGATTCTTGTGATGCGGGAAAAACAAAAACCAAATATTGT  
 GAACTACCTCGATAGTTATCTGGTAGGCGATGAGCTCTGGGTGGTATGGAATACTTGGCTGGTGGATCA  
 CTCACAGACGTCGTGACCGAAACCTGTATGGACGAGGGTCAGATTGCTGCGGTCTGTAGAGAGTCTTGC  
 AGGCTCTGGAGTTTCTGCACAGCAACCAAGTATCCATCGCGACATCAAAGCGACAACATCTTGTCTCGG  
 TATGGATGGGAGTGTCAAGCTCACAGACTTCGGATTTTGTGCGCAGATCACGCCGAGCAGAGCAAAAGA  
 AGCACAATGGTGGGACCCCTACTGGATGGCCCTGAAGTTGTTACACGCAAGGCTTACGGACCAAGG  
 TAGACATTTGGTCACTGGGTATTATGGCTATAGAGATGATTGAGGGAGAACCACCATACCTGAACGAGAA  
 CCCACTCCGGGCCCTGTACCTGATCGCTACTAATGGGACACCAGAACTGCAGAACCCCGAGAACTCTCT  
 GCGATCTTTCCGATTTCTGAATCGCTGCCTTGAGATGGATGTGGAAAAAGGGGTAGCGCTAAAGAGC  
 TGCTTCAGCATCAGTTCCTTAAATCGCCAAACCACTGTCAAGCCTTACTCCATTGATCGCTGCAGCTAA  
 GGAGGCTACAAAAATAACCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225277 representing NM\_011035  
 Red=Cloning site Green=Tags(s)

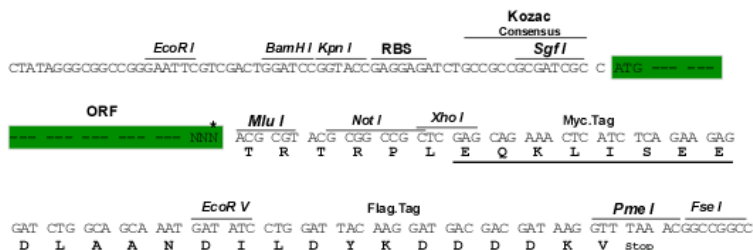
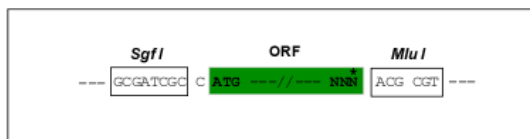
MSNNGVDIQDKPPAPMRNTSTMIGAGSKDTGTLNHGSKPLPPNPEEKKKDRFYRSILPGDKTNKKKEK  
 ERPEISLPSDFEHTIHVGFDAVTGEFTGMPEQWARLLQTSNITKSEQKKNPQAVLDVLEFYNSKKTNSQ  
 KYMSFTDKSAEDYNSNTLVKTVSETPAVPPVSEDEDDDDATPPPVIAPRPEHTKSVYTRSVIEPLPV  
 TPTRDVATSPIISPENNTTPPDALTRNTEKQKKPKMSDEEILEKLRISIVSGDPKPKYTRFEKIGQGAS  
 GTVYTAMDVATGQEVAIKQMNLLQQPKKELINEILVMRENKPNIVNYLDSYLVGDELWVMEYLAGGS  
 LTDVVTETCMDEGQIAAVCRECLQALEFLHSNQVIHRDIKSDNILLGMDGSVKLTDGFCAQITPEQSKR  
 STMVGTPTYWMAPEVVTRKAYGPKVDIWSLGIMAIEMIEGEPYLNENPLRALYL IATNGTPELQNPKEKLS  
 AIFRDFLNRCLMDVEKRGSAKELLQHQFLKIAKPLSSLTPLIAAAKEATKNNH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_011035

ORF Size: 1632 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\\_011035.2](#), [NP\\_035165.2](#)

RefSeq Size: 3081 bp

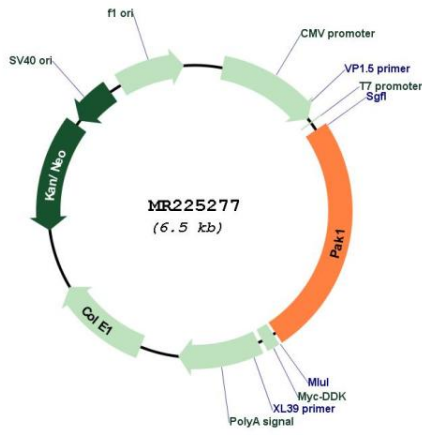
RefSeq ORF: 1635 bp

Locus ID: 18479

Cytogenetics: 7 53.57 cM

MW: 60.6 kDa

Product images:



Circular map for MR225277