

Product datasheet for **MG225277**

Pak1 (NM_011035) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pak1 (NM_011035) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pak1
Synonyms:	AW045634; PAK-1; Paka
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225277 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**CGATCGCC**

ATGTCCAATAACGGCGTTGATATACAGGACAAACCACCCGCCCTCCCATGAGGAATACATCCACCATGA
 TCGGGCCGGCAGCAAGGATACGGTACTCTCAACCATGGCTCTAAGCCCCTGCCCAAATCCCGAAGA
 AAAAAAAAAAGAAGGATAGATTCTATAGAAGCATTCTGCCCGGGATAAGACAAACAAGAAGAAAGAGAAG
 GAACGCCCGAAATCAGTCTCCCTTCTGATTTTGGACACACAATTCATGTTGGCTTCGATGCAGTAACCG
 GAGAGTTTACAGGGATGCCGGAGCAGTGGGCCAGGCTGCTGCAGACATCCAATATCACAAAGAGCGAGCA
 GAAAAAGAACCCACAGGCAGTGTCTGACGTGCTGGAGTCTACAACAGTAAAAAGACCTCAAACAGTCAA
 AAGTACATGAGTTTTACCGACAAGAGTGCAGAGGATTACAACCTCCAACACACTGAACGTGAAGACAG
 TTTCAGAAACCCAGCCGTTCCCCAGTATCTGAGGACGAAGATGATGACGATGATGCCACACCACCACC
 CGTTATCGCCCTAGGCCCGAGCACACTAAATCAGTTTATACCAGAAGTGTGATTGAACCGCTCCCGGTC
 ACCCTACCCGAGATGTGGCTACCTCACCCATCAGTCTACCGAAAACAACACTACCCACCCGATGCC
 TGACTCGAAACACTGAGAAACAGAAGAAGAAGCCAAAAATGTCGATGAAGAGATTCTGGAGAAGCTGAG
 GTCTATTGTGAGTGTGGGGACCCCAAGAAGAAGTACACCCGGTTCGAAAAGATCGGCCAGGGAGCAAGC
 GGCACTGTGTACACCCGATGGACGTGCCACTGGACAAGAAGTAGCAATCAAGCAAATGAATCTGCAGC
 AGCAGCCAAAGAAGAACTGATCATTAAATGAGATTCTTGTGATGCGGGAAAAACAAAAACCAATATTGT
 GAACTACCTCGATAGTTATCTGGTAGGCGATGAGCTCTGGGTGGTATGGAATACTTGGCTGGTGGATCA
 CTCACAGACGTCGTGACCGAAACCTGTATGGACGAGGGTCAGATTGCTGCGGTCTGTAGAGAGTCTTGC
 AGGCTCTGGAGTTTCTGCACAGCAACCAAGTATCCATCGCGACATCAAAAGCGACAACATCTTGTCTCG
 TATGGATGGGAGTGTCAAGCTCACAGACTTCGGATTTTGTGCGCAGATCACGCCGAGCAGAGCAAAAGA
 AGCACAATGGTGGGACCCCTACTGGATGGCCCTGAAGTTGTTACACGCAAGGCTTACGGACCAAGG
 TAGACATTTGGTCACTGGTATTATGGCTATAGAGATGATTGAGGGAGAACCACCATACCTGAACGAGAA
 CCCACTCCGGCCCTGTACCTGATCGCTACTAATGGGACACCAGAAGTGCAGAACCCCGAGAACTCTCT
 GCGATCTTTCCGATTTCTGAATCGCTGCCTTGAGATGGATGTGGAAAAAGGGGTAGCGCTAAAGAGC
 TGCTTCAGCATCAGTTCCTTAAATCGCCAAACCACTGTCAAGCCTTACTCCATTGATCGCTGCAGCTAA
 GGAGGCTACAAAAATAACCAT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

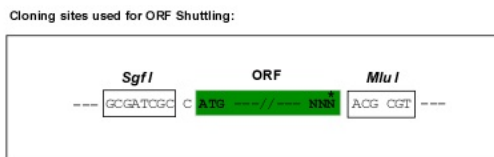
>MG225277 representing NM_011035
 Red=Cloning site Green=Tags(s)

MSNNGVDIQDKPPAPPMRNTSTMIGAGSKDTGLNHGSKPLPPNPEEKKKDRFYRSILPGDKTNKKKEK
 ERPEISLPSDFEHTIHVGFDAVTGEFTGMPEQWARLLQTSNITKSEQKKNPQAVLDVLEFYNSKKSNSQ
 KYMSFTDKSAEDYNSNLTNVKTVSETPAVPPVSEDEDDDDATPPPVIAPRPEHTKSVYTRSVIEPLPV
 TPTRDVATSPISPTENNTTPPDALTRNTEKQKKPKMSDEEILEKLRSIVSVDGPKKKYTRFEKIGQGAS
 GTVYTAMDVATGQEVAIKQMNLLQQPKKELINEILVMRENKNPNIVNYLDSYLVGDELWVMEYLAGGS
 LTDVVTETCMDEGQIAAVCRECLQALEFLHSNQVIHRDIKSDNILLGMDGSVKLTDFGFCAQITPEQSKR
 STMVGTPTYWMAPEVVTRKAYGPKVDIWSLGMIAIEMIEGEPYLNENPLRALYLIATNGTPELQNPKEKLS
 AIFRDFLNRCLMDVEKRGSAKELLQHQLKIAKPLSSLTPLIAAAKEATKNNH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

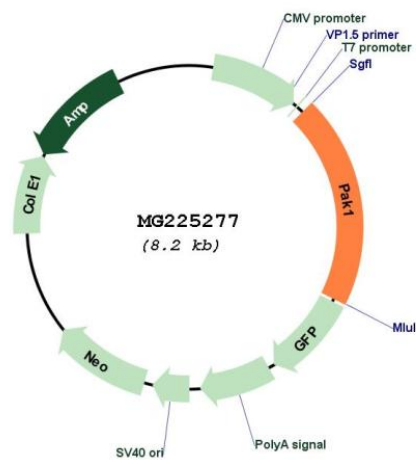


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                    Kozac
                  Consensus
                    Sgf I   Asc I
EcoR I           BamH I Kpn I RBS
CTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III  Nhe I Rsr II  Mlu I           Not I  Xho I           GFP Tag
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC -----
      T R T R P L E M E S D - - - -

                  Pme I   Fse I
----- GAA GAA AGA GTT TAA ACGGCCGCGCCGGAGCT
      - - E E R V Stop
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Plasmid Map:



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:	<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_011035.2 , NP_035165.2
RefSeq Size:	3081 bp
RefSeq ORF:	1635 bp
Locus ID:	18479
Cytogenetics:	7 53.57 cM